



DATA SOLUTIONS PRODUCT GUIDE

2020/2021



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DATWYLER

Datwyler Cabling Solutions 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 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 fire safety cables successfully passed E90 system circuit integrity testing as per DIN 4102-12.

1998 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.

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

2009 Datwyler offered complete turnkey solutions for data networks, data centres and fibre networks.

2010 Datwyler became full service main contractor for several FTTx projects in Switzerland.

2011 Datwyler opened a branch in Dubai.

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

2013 Acquisition by Pema Holding AG. The first Cat. 8 data cable "CU 8203 4P" was introduced.

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 2x24" with a diameter of only 10.4 mm were introduced.

2019 Datwyler introduced the "High-Density Data Centre Solution" (HD-DCS) and its Micro and Mini Data Centres.

QUALITY

QUALITY ASSURANCE

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

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.



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.



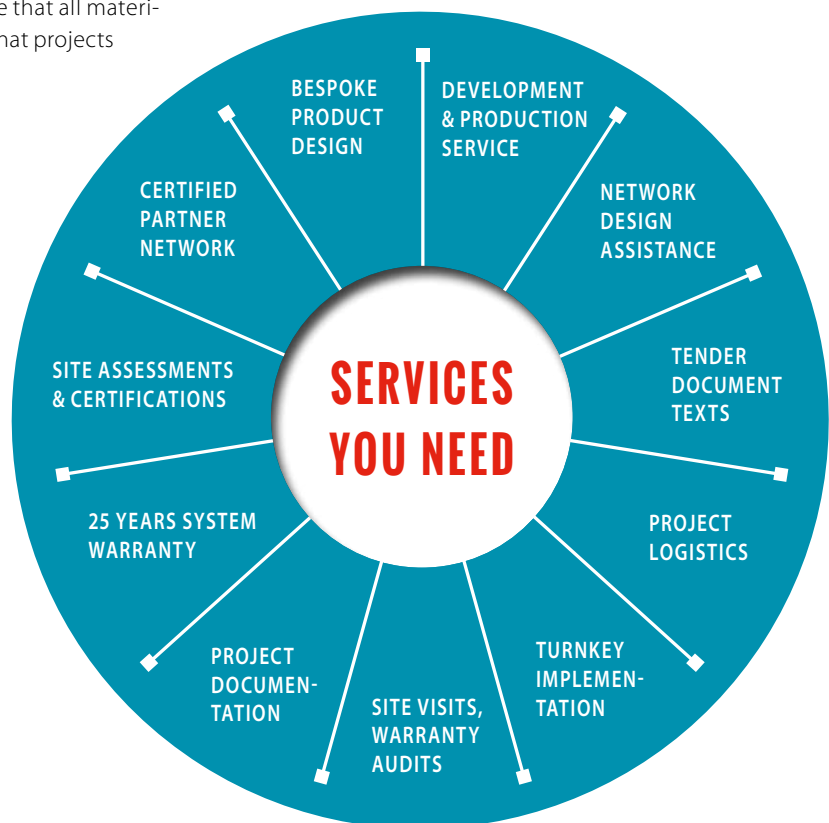
TURN-KEY PROJECTS

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 co-operation with our certified partners include consulting, engineering, implementation and maintenance:



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:

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

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.

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.

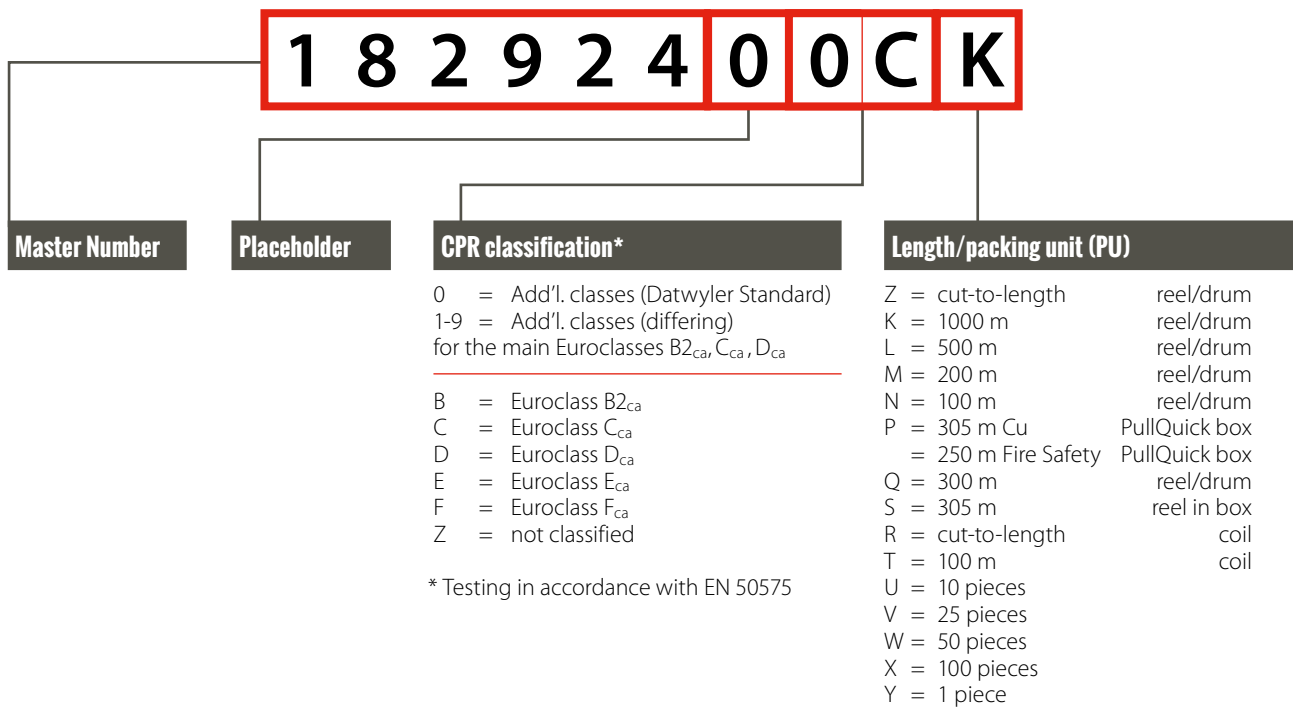


EXTENDED ARTICLE NUMBERS

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:



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

MICRO AND MINI DATA CENTRES



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.

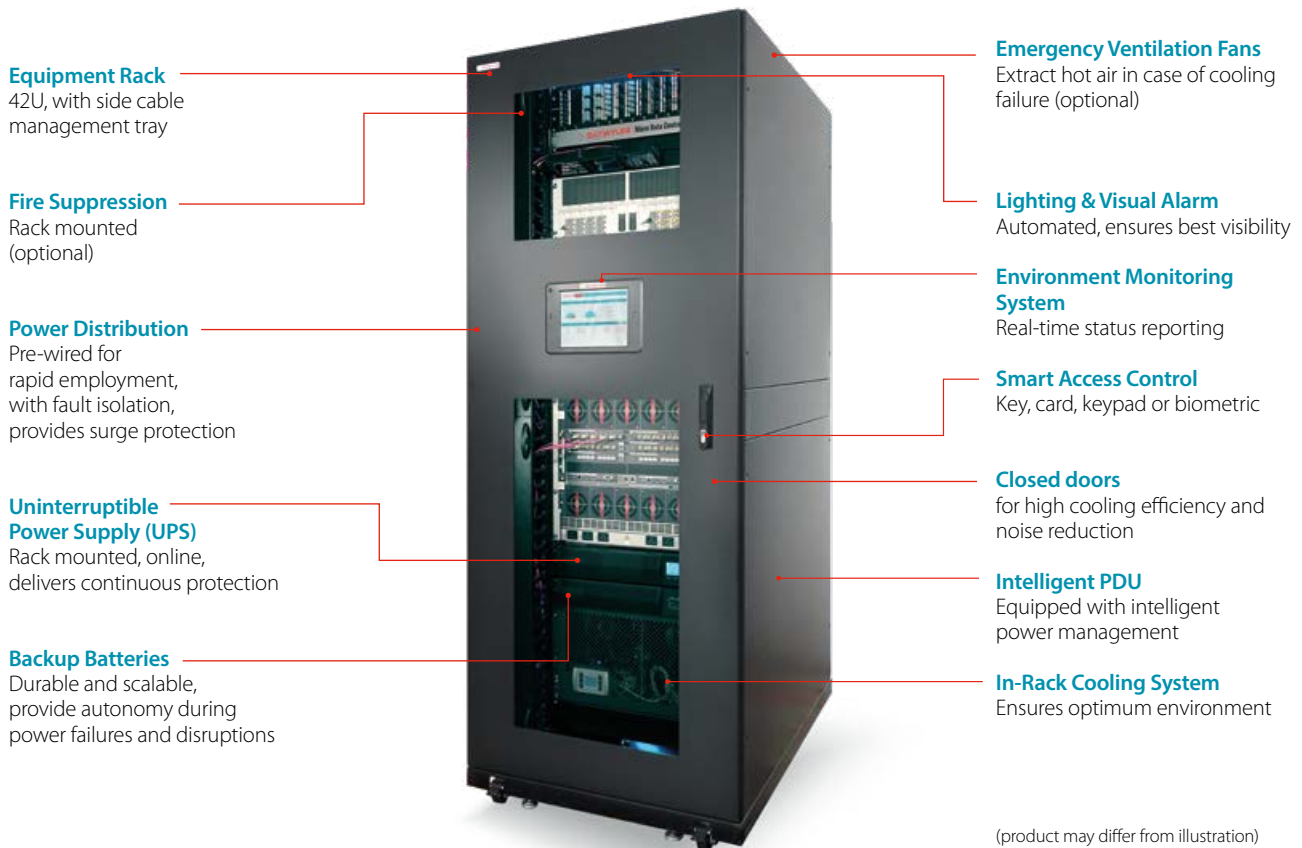
The amount of data produced will continue to grow exponentially. These data volumes have to be processed close to their source (Edge Computing) due to, among other factors, efficiency and latency times. A lot of mini and micro data centres are needed to do this.

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

In a compact 42U rack Datwyler's Micro Data Centre contains a fully preassembled plug-and-play IT infrastructure solution; including a power distribution unit, UPS, cooling system, fire suppression system (optional), air gap sealing and environment monitoring system. It can be deployed within a few hours. The infrastructure can be customised according to customer needs and requirements.

Datwyler's Micro Data Centre is designed for small data centres and applications such as edge computing, computing node in remote and branch offices, floor distributor (FD) and "smart facilities" deploying IoT devices and running Artificial Intelligence (AI), Augmented Reality (AR), Virtual Reality (VR) and automation.



(product may differ from illustration)

Specifications	MDC 100	MDC 200	MDC 300
Height units	42 U	42 U	42 U
Available space	42 U	38 U	30 U
Dimensions (HxWxD)	2200 x 800 x 800 mm	2200 x 800 x 1100 mm	2200 x 800 x 1100 mm
Doors	Closed (glas front and metal back)	Perforated	Closed (glas front and metal back)
Access control	Electronic	Electronic	Electronic
UPS Capacity	-	up to 3 kVA	up to 3 kVA
Back-up time	-	15/30 min @ 50% load	15/30 min @ 50% load
Cooling capacity	-	-	3,6 kW
User interface	Touch screen; web browser	Web browser	Touch screen, web browser
Monitoring	Temperature & humidity, smoke, iPDU, door status	Temperature & humidity, smoke, UPS and batteries, iPDU, door status, alarm status	Cooling, temperature & humidity, smoke, leakage, UPS and batteries, iPDU, door status, alarm status
Alarm	Sound/light alarm, email notification	Sound/light alarm, email notification	Sound/light alarm, email notification
Options	Camera, cabling, ventilation fans, SMS alarm notification, fire extinction system	Camera, cabling, ventilation fans, SMS alarm notification	Camera, cabling, ventilation fans, SMS alarm notification, fire extinction system

Versions

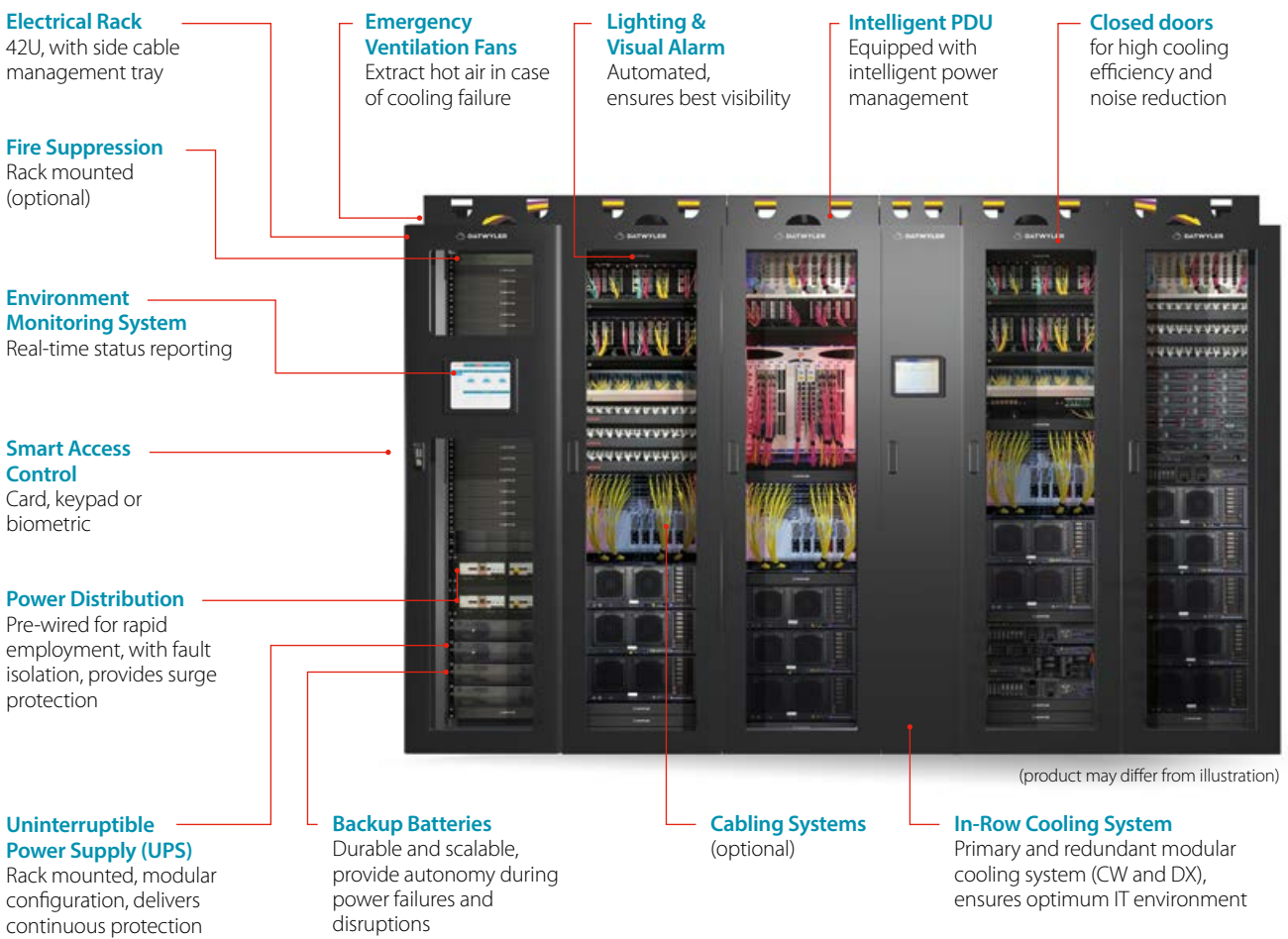
The Datwyler Micro Data Centre is a tailor-made and customised solution to fulfil the customers' specific needs and requirements.

MICRO AND MINI DATA CENTRE

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 42U 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.



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 mins.
Sensible cooling capacity	up to 75.3 kW (CW or DX)
Dimensions (W x D x H)	(1500 - 6900) x 1400 x 2000 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, power usage effectiveness (PUE), IT load, temperature, humidity and alarm status
User interface	10.4" touch screen and remote web interface
Alarm	Sound/light alarm, email notification

Versions

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

DATWYLER EMS FOR MINI AND MICRO DATA CENTRE

The Environmental Monitoring System (EMS) provides a top level as well as a detailed overview of the status of IT infrastructure housed within the Micro & Mini DC. The system is characterized by real time remote monitoring of environmental conditions, access control 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.

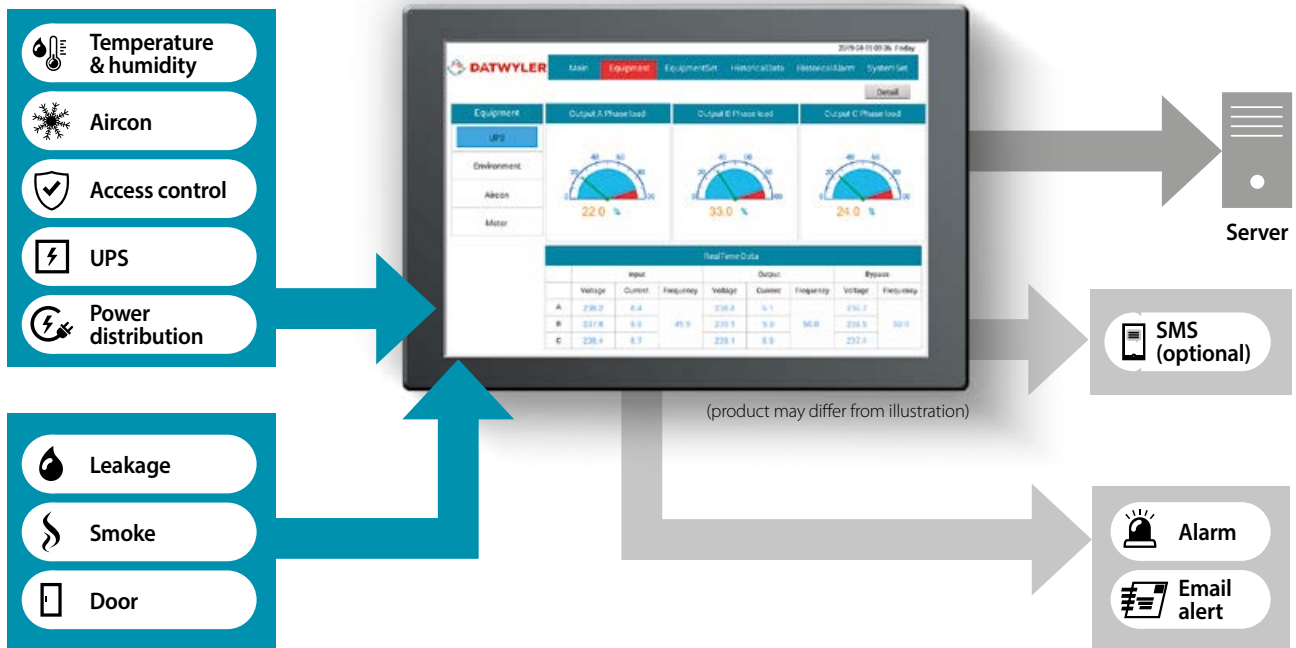
System architecture

Real-time monitoring

Openness & flexibility

Alarm notification

Reports & graphs



HMI touch screen features

- . Flat Touchscreen with multi-touch function
- . Multilingual Web GUI with integrated logic
- . SNMP enabled ports for auto detection of sensors
- . User access management
- . Integrated interface Ethernet, USB, CAN, Analog & Digital
- . 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 64GB)
- . Sim card slot for optional GSM modem
- . Warning alarms for maintenance and critical events
- . Graphical representation of environmental data

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, reliability and performance and meet all media convergence 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.

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 18 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 69 onwards).

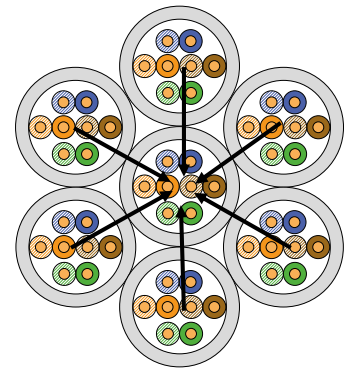


SHIELDED VS. UNSHIELDED

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

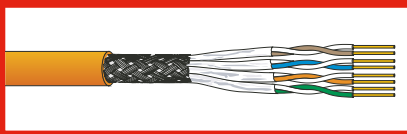
High bandwidth reserve capacities and power transmission to the workplace over the LAN cabling system - up to 96 W for end devices such as computers, monitors, cameras and telephones.

Most Economical Link

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

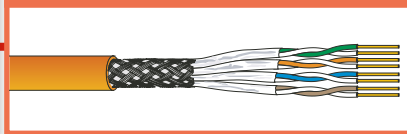
CU 7702

4P / 2x4P, Cat.7_A, AWG22



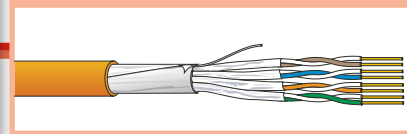
CU 7080

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.

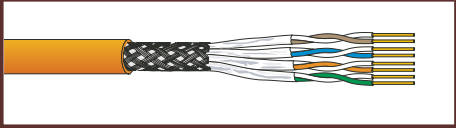
This overview provides recommended cables and components which are the best fit to your current and future requirements. **Please note the recommended links on the following pages which are highlighted in different colours.**

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












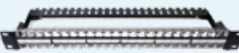






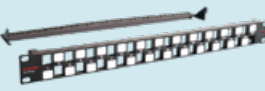



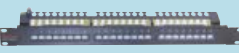
KU-TC Plus 1/8

tool-less, Cat.6_A






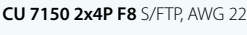

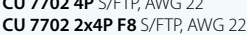





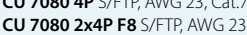

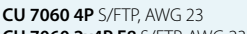

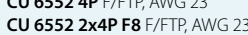

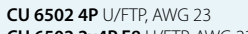







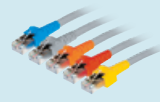
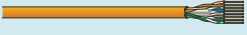












* to complete the Channel use.

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 alternativ: Compact Solution with integrated RJ45 modules  KS 24x-a Keystone patch panel, angled, unloaded
	Cat. 5e / Class D 100 MHz	 KS 24x Keystone patch panel, unloaded	 KS 24x-a Keystone patch panel, angled, unloaded	 CSP 24/8 Cat. 6 alternativ: Compact Solution with integrated RJ45 modules
	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	
Cat. 5e / Class D 100 MHz		 KU 24x Keystone patch panel, unloaded	 CUP 24/8 Cat. 6 Compact Solution with integrated RJ45 modules	



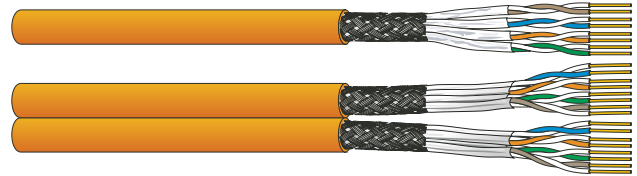
Data cable	Module	Patch cord	
 <p>CU 8203 4P S/FTP, AWG 23 25 and 40Gbit/s</p>  <p>CU 7725 4P S/FTP, AWG 22, 25Gbit/s</p>	 <p>RJ45 module KS-T8 Class I</p>	 <p>RJ45 patch cord Cat.8/Class I CU 8206 flex</p>	
 <p>CU 7150 4P S/FTP, AWG 22</p>  <p>CU 7150 2x4P F8 S/FTP, AWG 22</p>  <p>CU 7702 4P S/FTP, AWG 22</p>  <p>CU 7702 2x4P F8 S/FTP, AWG 22</p>	 <p>PS-GG45 7_A Cat.7_A</p>  <p>PS-TERA 4P Cat.7_A</p>	 <p>Patch cord PS-GG45 4P</p>  <p>Patch cord PS-TERA 4P</p>	
 <p>CU 7080 4P S/FTP, AWG 23, Cat.7</p>  <p>CU 7080 2x4P F8 S/FTP, AWG 23, Cat.7</p>  <p>CU 7060 4P S/FTP, AWG 23</p>  <p>CU 7060 2x4P F8 S/FTP, AWG 23</p>	 <p>CU 6552 4P F/FTP, AWG 23</p>  <p>CU 6552 2x4P F8 F/FTP, AWG 23</p>  <p>CU 6502 4P U/FTP, AWG 23</p>  <p>CU 6502 2x4P F8 U/FTP, AWG 23</p>	 <p>RJ45 module KS-TC Plus 1/8 Cat.6_A</p>  <p>RJ45 module KS-T Plus 1/8 Cat.6_A</p>  <p>RJ45 module MS-C6 1/8 Cat.6 (IEC) 180°-K</p>	 <p>RJ45 patch cord Cat.6_A/E_A CU 7702 flex</p>
 <p>CU 5502 4P SF/UTP, AWG 24</p>  <p>CU 5002 4P F/UTP, AWG 24</p>	 <p>RJ45 module KS-T5 1/8 Cat.5e</p>	 <p>RJ45 patch cord Cat.5e CU 5502 flex</p>	
 <p>CU 692 4P U/UTP, AWG 23</p>	 <p>RJ45 module KU-TC Plus 1/8 Cat.6_A</p>	 <p>RJ45 patch cord Cat.6_A/E_A CU 7702 flex</p>	
 <p>CU 662 4P U/UTP, AWG 24</p>	 <p>RJ45 module KU-T 1/8 Cat.6</p>	 <p>RJ45 patch cord Cat.6 CU 602 flex</p>  <p>RJ45 patch cord Cat.6</p>	
 <p>CU 502 4P U/UTP, AWG 24</p>	 <p>RJ45 module KU-T 1/8 Cat.5e</p>	 <p>RJ45 patch cord Cat.5e</p>  <p>RJ45 patch cord Cat.5e</p>	

COPPER SOLUTIONS - 10 Gbit/s STP

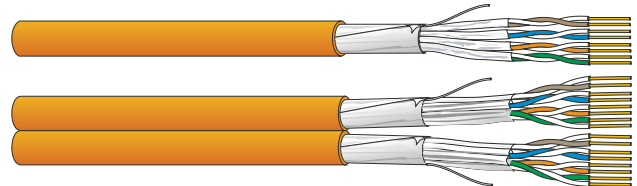
DATA CABLES CATEGORY 7_A, 7 AND 6_A

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



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/LSOH ¹⁾	7.6	65.3	40.2	0.18 0.62	orange	1000 m drum	4PPoE
18292600DL	2x (4 x 2 x 0.64 AWG22)	FRNC/LSOH ¹⁾	7.6 x 16.0	131.4	80.4	0.36 1.24	orange	500 m drum	
CU 7702 4P, S/FTP, AWG22, Category 7_A data cable, shielded									
17740000DK	4 x 2 x 0.62 (AWG22)	FRNC/LSOH ¹⁾	7.6	61.9	34.9	0.18 0.64	orange	1000 m drum	4PPoE
17739000DL	2x (4 x 2 x 0.62 AWG22)	FRNC/LSOH ¹⁾	7.6 x 16.2	125.7	69.8	0.36 1.29	orange	500 m drum	
CU 7120 4P, F/FTP, AWG23, Category 7_A data cable, shielded									
19146600DK	4 x 2 x 0.59 (AWG23)	FRNC/LSOH ¹⁾	7.6	63.0	32.3	0.18 0.649	orange	1000 m drum	4PPoE
19146700DL	2x (4 x 2 x 0.59 AWG 23)	FRNC/LSOH ¹⁾	7.6 x 16.0	126.0	64.6	0.36 1.298	orange	500 m drum	
CU 7080 4P, S/FTP, AWG23, Category 7 data cable, shielded									
18291100DK	4 x 2 x 0.57 (AWG23)	FRNC/LSOH ¹⁾	7.2	54.8	31.1	0.16 0.57	orange	1000 m drum	PoE+
18291200DL	2x (4 x 2 x 0.57 AWG23)	FRNC/LSOH ¹⁾	7.2 x 15.4	109.6	62.2	0.32 1.14	orange	500 m drum	
CU 7060 4P, S/FTP, AWG23, Category 6_A data cable, shielded									
18292400DK	4 x 2 x 0.55 (AWG23)	FRNC/LSOH ¹⁾	7.1	55.0	26.4	0.152 0.55	orange	1000 m drum	PoE
18292700DL	2x (4 x 2 x 0.55 AWG23)	FRNC/LSOH ¹⁾	7.1 x 15	110.0	52.8	0.304 1.10	orange	500 m drum	
CU 6552 4P, F/FTP, AWG23, Category 6_A data cable, shielded									
19145400DK	4 x 2 x 0.55 (AWG23)	FRNC/LSOH ¹⁾	7.0	48.5	20.0	0.14 0.52	orange	1000 m drum	PoE
19145600DL	2x (4 x 2 x 0.55 AWG 23)	FRNC/LSOH ¹⁾	7.0 x 14.3	97.0	40.0	0.28 1.04	orange	500 m drum	
CU 6502 4P, U/FTP, AWG23, Category 6_A data cable, shielded									
19145300DK	4 x 2 x 0.55 (AWG23)	FRNC/LSOH ¹⁾	7.0	47.8	20.0	0.15 0.55	orange	1000 m drum	PoE
19145500DL	2x (4 x 2 x 0.55 AWG 23)	FRNC/LSOH ¹⁾	7.0 x 14.3	95.6	40.0	0.30 1.10	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 B_{2ca} performance. For the available Euroclasses please refer to the online data sheets on www.cabling.datwyler.com.

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



4PPoE / 90W AWG22



4PPoE / 90W AWG23



PoE+ / 30W < AWG22



PoE / 15W

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)

High-End Link	Premium Link	Most Economical Link	Most Popular Link
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Article No.	Description	Colour	PU
418069	RJ45 module KS-TC Plus 1/8 Cat.6 _A shielded, tool-less	metal	12 pcs.
418061	RJ45 module KS-T Plus 1/8, Cat.6 _A (IEC), shielded, tool-less, with dust shutter	metal	10 pcs.
418054	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/LSOH¹⁾, Cat.7)**

	white	black	grey	green	yellow	red	blue	orange
0.5 m	653903	653803	653503	653553	653603	653653	653703	(653753)*
1.0 m	653908	653808	653508	653558	653608	653658	653708	653758
1.5 m	653909	653809	653509	653559	653609	653659	653709	(653759)*
2.0 m	653910	653810	653510	653560	653610	653660	653710	653760
2.5 m	653911	653811	653511	653561	653611	653661	653711	(653761)*
3.0 m	653912	653812	653512	653562	653612	653662	653712	653762
4.0 m	653914	653814	653514	653564	653614	653664	653714	(653764)*
5.0 m	653916	653816	653516	653566	653616	653666	653716	653766
6.0 m	653918	653818	653518	653568	653618	653668	653718	(653768)*
7.0 m	653920	653820	653520	653570	653620	653670	653720	653770
8.0 m	653922	653822	653522	653572	653622	653672	653722	(653772)*
9.0 m	653924	653824	653524	653574	653624	653674	653724	(653774)*
10.0 m	653926	653826	653526	653576	653626	653676	653726	(653776)*
12.5 m	653927	653827	653527	653577	653627	653677	653727	(653777)*
15.0 m	653928	653828	653528	653578	653628	653678	653728	(653778)*
20.0 m	653930	653830	653530	653580	653630	653680	653730	(653780)*

Note: Products marked with (*) and lengths up to 100 m are not on stock but can be made to order. Please do not hesitate to contact us for details.

¹⁾ FRNC/LSOH = 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
Keystone patch panel, unloaded,
stainless steel and grey



MGK 24x/16x,
Keystone patch panel,
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 (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 separate 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.
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	1 pc.
440053	Patch panel MGK 16x, straight, 19"/1U, for 16x KS-T Plus or KS-TC Plus Keystone module (without modules)	grey	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	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.		1. 1-port, angled 2. 2-port, angled 3. 3-port, angled
	2 185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.		4. 2-port, with straight outlet
	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, straight outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.		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
French standard	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.		6. Bezel, 1-port 7. Bezel, 2-port 8. Bezel, 1-port, slim
	9 418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.		9. Bezel, 2-port, angled
	10 418029	Keystone, 1-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
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.		10. Bezel, 1-port, angled
British standard	11 185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		11. 1-port, angled 12. 2-port, angled
	12 185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		13. 1-port, with straight outlet 14. 2-port, with straight outlet
	13 185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		Flush/duct mounted Cover frame: 86 x 86 mm
	14 185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		Flush mounted Central plate: 50 x 50 mm (2x 25 x 50 mm) Cover frame: 86 x 86 mm
American / Italian standard (503 design)	15 440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.		15. 2-port faceplate
	16 440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.		16. 3-port faceplate
	17 440105	Blank cover for 503 faceplate	white	100 pcs.		17. Blank cover
	18 440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.		18. External wall box
	19 440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.		19. Bticino Axolute
	20 440114	RJ45 adapter for Bticino Living International	black	100 pcs.		20. Bticino Living International
	21 440115	RJ45 adapter for Bticino Living Light	white	100 pcs.		21. Bticino Living Light
	22 440120	RJ45 adapter for Bticino Matix	white	100 pcs.		22. Bticino Matix
Universal	25 418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.		25. Surface mount box
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.		26. Surface mount box with dust shutters
	26 418037	Surface mount box with dust shutters for 2 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
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.		
	27 309234	Surface mount box for 4 Keystone modules, 85 x 43.63 x 110 mm	metal / white	1 pc.		27. 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.		
	28 309238	Adapter plate for DIN rail mounting (delivery without M4 screws)	silver	1 pc.		28. Adapter plate
	29 309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.		29. Mini adapter plate


COPPER SOLUTIONS - 10 Gbit/s UTP

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								
19425800DL	4 x 2 x 0.60 (AWG23)	FRNC/LSOH ¹⁾	8.9	66.2	24.2	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 www.cabling.datwyler.com.

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

RJ45 MODULES

unshielded



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

Article No.	Description	Colour	PU
418074	RJ45 module KU-TC Plus Cat.6 _A toolless, unshielded	white	12 pcs.
418075	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, 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/LSOH¹⁾, Cat. 7)**

	white	black	grey	green	yellow	red	blue	orange
0,5 m	653903	653803	653503	653553	653603	653653	653703	(653753)*
1,0 m	653908	653808	653508	653558	653608	653658	653708	653758
1,5 m	653909	653809	653509	653559	653609	653659	653709	(653759)*
2,0 m	653910	653810	653510	653560	653610	653660	653710	653760
2,5 m	653911	653811	653511	653561	653611	653661	653711	(653761)*
3,0 m	653912	653812	653512	653562	653612	653662	653712	653762
4,0 m	653914	653814	653514	653564	653614	653664	653714	(653764)*
5,0 m	653916	653816	653516	653566	653616	653666	653716	653766
6,0 m	653918	653818	653518	653568	653618	653668	653718	(653768)*
7,0 m	653920	653820	653520	653570	653620	653670	653720	653770
8,0 m	653922	653822	653522	653572	653622	653672	653722	(653772)*
9,0 m	653924	653824	653524	653574	653624	653674	653724	(653774)*
10,0 m	653926	653826	653526	653576	653626	653676	653726	(653776)*
12,5 m	653927	653827	653527	653577	653627	653677	653727	(653777)*
15,0 m	653928	653828	653528	653578	653628	653678	653728	(653778)*
20,0 m	653930	653830	653530	653580	653630	653680	653730	(653780)*

Note: Products marked with (*) and lengths up to 100 m are not on stock but can be made to order. Please do not hesitate to contact us for details.

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

*** We recommend shielded Cat.6_A patch cords for an unshielded 10G cabling because these patch cords are "slimmer" and more flexible than unshielded patch cords which were optimized for a good Alien Crosstalk (AXT) performance.**

COPPER SOLUTIONS - 10 Gbit/s UTP

PATCH PANELS

for RJ45 modules, Cat. 6_A, unshielded



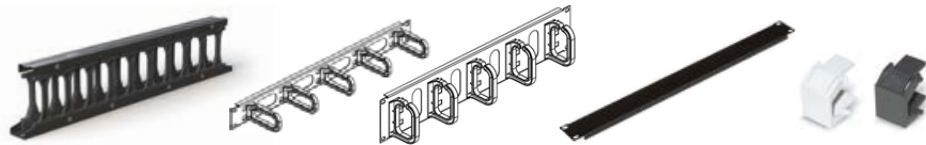
Patch panel KU 24x-sg staggered, unshielded



IDC termination tool 110

Article No.	Description	Colour (similar to)	PU
418027	Patch panel KU 24x-sg, 19"/1U, for 24x RJ45 Cat. 6, Keystone module UTP (delivery without modules)	grey, RAL 7035	1 pc.
418028	Patch panel KU 24x-sg, 19"/1U, for 24x RJ45 Cat. 6, Keystone module UTP (delivery without modules)	black, RAL 9005	1 pc.
185896	IDC termination tool 110		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.		1. 1-port, angled 2. 2-port, angled 3. 3-port, angled
	2 185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.		4. 2-port, with straight outlet
	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, straight outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.		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 design	white, RAL 9010	1 pc.		5. 2-port, angled Flush/duct mounted Central plate: 50 x 50 mm Cover frame: 80 x 80 mm
French standard	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.		6. Bezel, 1-port 7. Bezel, 2-port 8. Bezel, 1-port, slim
	9 418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.		9. Bezel, 2-port, angled
	10 418029	Keystone, 1-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
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.		10. Bezel, 1-port, angled
British standard	11 185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		11. 1-port, angled 12. 2-port, angled
	12 185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		13. 1-port, with straight outlet 14. 2-port, with straight outlet
	13 185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		Flush/duct mounted Cover frame: 86 x 86 mm
	14 185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		Flush mounted Central plate: 50 x 50 mm (2x 25 x 50 mm) Cover frame: 86 x 86 mm
American / Italian standard (503 design)	15 440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.		15. 2-port faceplate
	16 440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.		16. 3-port faceplate
	17 440105	Blank cover for 503 faceplate	white	100 pcs.		17. Blank cover
	18 440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.		18. External wall box
	19 440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.		19. Bticino Axolute
	20 440114	RJ45 adapter for Bticino Living International	black	100 pcs.		20. Bticino Living International
	21 440115	RJ45 adapter for Bticino Living Light	white	100 pcs.		21. Bticino Living Light
	22 440120	RJ45 adapter for Bticino Matix	white	100 pcs.		22. Bticino Matix
Universal	25 418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.		25. Surface mount box
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.		26. Surface mount box with dust shutters
	26 418037	Surface mount box with dust shutters for 2 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
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.		
	27 309234	Surface mount box for 4 Keystone modules, 85 x 43,63 x 110 mm	metal / white	1 pc.		27. 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.		
	28 309238	Adapter plate for DIN rail mounting (delivery without M4 screws)	silver	1 pc.		28. Adapter plate
	29 309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.		29. Mini adapter plate

COPPER SOLUTIONS - 25/40 Gbit/s STP

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 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
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 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
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	62	34.9	0.18 0,64 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 www.cabling.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		Description	Adaptation	Cable	Cable colour	Pin connection
		PS-TERA	RJ45					
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

COPPER SOLUTIONS - 25/40 Gbit/s STP

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

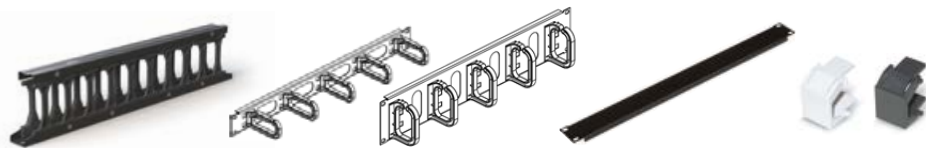
Article No.	Description	Colour (similar to)	PU
418019	Patch panel KS 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
418020	Patch panel KS 24x, straight, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	grey, RAL 7035	1 pc.
4000099	Patch panel 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



Article No.	Description	MPS 24x for PS-TERA 4P	MGK 24x for PS-GG45	Colour/Material	MGK 48x for PS-GG45 7 _A	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



Article No.	Description	Cable management panels	Blank plate	Blank covers for unused keystone openings	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.		1. 1-port, angled	 4. 2-port, with straight outlet Flush mounted Central plate: 50 x 50 mm Cover frame: 80 x 80 mm
	2 185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.		2. 2-port, angled	
	3 185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.		3. 3-port, angled	
	4 185861	Faceplate, straight 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.	   Flush mounted Standard version: 45 x 45 mm Slim version: 45 x 22.5 mm	5. Bezel, 1-port	
	6 418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.		6. Bezel, 2-port	
	7 418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.		7. Bezel, 1-port, slim	
	8 418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.		 	8. Bezel, 2-port, angled
	9 418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.			9. Bezel, 1-port, angled
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.	 Flush/duct mounted Cover frame: 86 x 86 mm	9. 1-port, angled	
	10 185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		10. 2-port, angled	
	11 185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		 Flush mounted Central plate: 50 x 50 mm (2x 25 x 50 mm) Cover frame: 86 x 86 mm	11. 1-port, with straight outlet
	12 185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.			12. 2-port, with straight outlet
American / Italian standard (503 design)	13 440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.	         	13. 2-port faceplate	
	14 440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.		14. 3-port faceplate	
	15 440105	Blank cover for 503 faceplate	white	100 pcs.		15. Blank cover	
	16 440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.		16. External wall box	
	17 440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.		17. Bticino Axolute	
	18 440114	RJ45 adapter for Bticino Living International	black	100 pcs.		18. Bticino Living International	
	19 440115	RJ45 adapter for Bticino Living Light	white	100 pcs.		19. Bticino Living Light	
	20 440120	RJ45 adapter for Bticino Matix	white	100 pcs.		20. Bticino Matix	
	21 440135	RJ45 adapter for Gewiss system	white	100 pcs.		21. for Gewiss system	
	22 440140	RJ45 adapter for Vimar Plana	white	100 pcs.		22. for Vimar Plana	
Universal	23 418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.	 23. Surface mount box for 2 modules: 68 x 65 x 30 mm for 4 modules: 118 x 85 x 30 mm	 24. Surface mount box with dust shutters	
	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. 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		
	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. Adapter plate	 27. Mini adapter plate	
	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.			
for PS-TERA modules	28 185763	Flush faceplate, angled outlet, for up to 2x PS/MS module, with cover frame (without modules)	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	
	29 185762	Wall mounted outlet Edizio 56 mm, angled, for up to 2x PS/MS module (without modules)	white, RAL 9010	1 pc.			 30. Faceplate angled 2x (flush duct mounted) 80 x 80 mm German standard
	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.			

COPPER SOLUTIONS - 1 Gbit/s UTP

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										
2401390...P	4 x 2 x 0.55 (AWG24)	FR/PVC ¹⁾	6.0	39.8	19.4	0.20	0.72	grey	305 m PullQuick box	PoE
2401390...L	4 x 2 x 0.55 (AWG24)	FR/PVC ¹⁾	6.0	39.8	19.4	0.20	0.72	grey	500 m drum	
2401390...K	4 x 2 x 0.55 (AWG24)	FR/PVC ¹⁾	6.0	39.8	19.4	0.20	0.72	grey	1000 m drum	
2401410...S	4 x 2 x 0.55 (AWG24)	FRNC/LSOH ²⁾	6.0	41.3	19.4	0.17	0.60	orange	305 m reel in box	
2401410...L	4 x 2 x 0.55 (AWG24)	FRNC/LSOH ²⁾	6.0	41.3	19.4	0.17	0.60	orange	500 m drum	
2401410...K	4 x 2 x 0.55 (AWG24)	FRNC/LSOH ²⁾	6.0	41.3	19.4	0.17	0.60	orange	1000 m drum	

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 www.cabling.datwyler.com.

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

DATA CABLE - CATEGORY 5e

Copper data cable, up to 100 MHz, 4 x 2 x AWG24, for structured premises cabling.
Applicable from ISDN to 1000Base-T.
Applicable standards: EN 50173-1:2002, ISO/IEC 11801:2002/A2:2010.



CU 502 4P, U/UTP, AWG24, unshielded

2401320...S	4 x 2 x 0.51 (AWG24)	FR/PVC ¹⁾	5.5	33.6	18.1	0.14	0.49	grey	305 m reel in box	PoE
2401320...L	4 x 2 x 0.51 (AWG24)	FR/PVC ¹⁾	5.5	33.6	18.1	0.14	0.49	grey	500 m drum	
2401320...K	4 x 2 x 0.51 (AWG24)	FR/PVC ¹⁾	5.5	33.6	18.1	0.14	0.49	grey	1000 m drum	
2401350...S	4 x 2 x 0.51 (AWG24)	FRNC/LSOH ²⁾	5.5	33.8	18.1	0.12	0.43	grey	305 m reel in box	
2401350...L	4 x 2 x 0.51 (AWG24)	FRNC/LSOH ²⁾	5.5	33.8	18.1	0.12	0.43	grey	500 m drum	
2401350...K	4 x 2 x 0.51 (AWG24)	FRNC/LSOH ²⁾	5.5	33.8	18.1	0.12	0.43	grey	1000 m drum	

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

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

RJ45 MODULES

unshielded



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



KU-T 1/8 Cat. 5e, unshielded, tool-less

Article No.	Description	Colour	PU
418070	RJ45 module KU-T 1/8 Cat.6, unshielded, tool-less	white	10 pcs.
418071	RJ45 module KU-T 1/8 Cat.6, unshielded, tool-less	black	10 pcs.
418072	RJ45 Keystone KU-T 1/8 Cat. 5e, unshielded, tool-less	white	10 pcs.
418073	RJ45 Keystone KU-T 1/8 Cat. 5e, unshielded, tool-less	black	10 pcs.

PATCH CORDS

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

Patch cords, U/UTP, with FR/PVC¹⁾

or FRNC/LSOH²⁾ sheath



Length	FR/PVC ¹⁾		FRNC/LSOH ²⁾					
	grey	grey	green	yellow	red	blue	white	black
1.0 m	309021	309321	65185800ZY	65170800ZY	65180800ZY	65175800ZY	65165800ZY	65160800ZY
1.5 m	309022	309322	65186000ZY	65171000ZY	65181000ZY	65176000ZY	65166000ZY	65161000ZY
2.0 m	309023	309323	65186100ZY	65171100ZY	65181100ZY	65176100ZY	65166100ZY	65161100ZY
3.0 m	309025	309325	65186200ZY	65171200ZY	65181200ZY	65176200ZY	65166200ZY	65161200ZY
4.0 m	309026	309326	65186400ZY	65171400ZY	65181400ZY	65176400ZY	65166400ZY	65161400ZY
5.0 m	309027	309327	65186600ZY	65171600ZY	65181600ZY	65176600ZY	65166600ZY	65161600ZY
7.0 m	309029	309329	65187000ZY	65172000ZY	65182000ZY	65177000ZY	65167000ZY	65162000ZY
10.0 m	309031	309331	65187600ZY	65172600ZY	65182600ZY	65177600ZY	65167600ZY	65162600ZY

¹⁾ FR/PVC = Flame Retardant/Polyvinylchloride

²⁾ FRNC/LSOH = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

Patch cords, RJ45, Cat. 5e, 100 MHz, unshielded, 4P, wiring 1:1

Patch cords, U/UTP, with FR/PVC¹⁾ or FRNC/LSOH²⁾ sheath

Grey, with moulded and bend limiting boots.

Cable sheath made of FR/PVC¹⁾.

Suitable for all applications up to Class D (100 MHz), e.g. 1000Base-T, 100Base-T, ISDN.

Length ³⁾	FR/PVC ¹⁾	FRNC/LSOH ²⁾
	grey	grey
1.0 m	309001	309301
1.5 m	309002	309302
2.0 m	309003	309303
3.0 m	309005	309305
4.0 m	309006	309306
5.0 m	309007	309307
7.0 m	309009	309309
10.0 m	309011	309310



¹⁾ FR/PVC = Flame Retardant/Polyvinylchloride

²⁾ FRNC/LSOH = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

³⁾ other lengths on request, minimum order quantity = 100 pieces

COPPER SOLUTIONS - 1 Gbit/s UTP

PATCH PANELS

for RJ45 modules, Cat. 6, unshielded



KU 24x
Keystone patch panel, unloaded



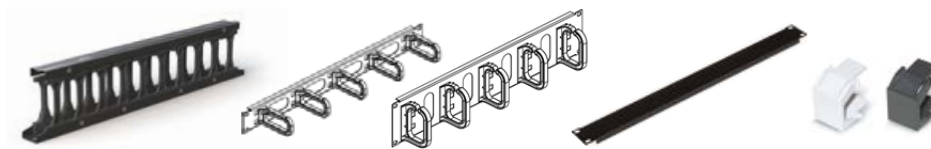
CUP 24/8 Cat.6, with integrated
RJ45 modules, unshielded



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.
185896	IDC termination tool 110 (recommended for patch panels CSP and CUP)	blue/grey	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		
German standard	1 185866	Faceplate for 1 module with Keystone snap-in fitting	white, RAL 9010	1 pc.		1. 1-port, angled 2. 2-port, angled 3. 3-port, angled
	2 185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.		4. 2-port, with straight outlet
	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, straight outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.		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 design	white, RAL 9010	1 pc.		5. 2-port, angled Flush/duct mounted Central plate: 50 x 50 mm Cover frame: 80 x 80 mm
French standard	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.		6. Bezel, 1-port 7. Bezel, 2-port 8. Bezel, 1-port, slim
	9 418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.		9. Bezel, 2-port, angled
	10 418029	Keystone, 1-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
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.		10. Bezel, 1-port, angled
British standard	11 185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		11. 1-port, angled 12. 2-port, angled
	12 185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		13. 1-port, with straight outlet 14. 2-port, with straight outlet
	13 185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.		Flush/duct mounted Cover frame: 86 x 86 mm
	14 185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.		Flush mounted Central plate: 50 x 50 mm (2x 25 x 50 mm) Cover frame: 86 x 86 mm
American / Italian standard (503 design)	15 440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.		15. 2-port faceplate
	16 440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.		16. 3-port faceplate
	17 440105	Blank cover for 503 faceplate	white	100 pcs.		17. Blank cover
	18 440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.		18. External wall box
	19 440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.		19. Bticino Axolute
	20 440114	RJ45 adapter for Bticino Living International	black	100 pcs.		20. Bticino Living International
	21 440115	RJ45 adapter for Bticino Living Light	white	100 pcs.		21. Bticino Living Light
	22 440120	RJ45 adapter for Bticino Matix	white	100 pcs.		22. Bticino Matix
	23 440135	RJ45 adapter for Gewiss system	white	100 pcs.		23. for Gewiss system
	24 440140	RJ45 adapter for Vimar Plana	white	100 pcs.		24. for Vimar Plana
	25 418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.		25. Surface mount box with dust shutters
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	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
	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.		27. Adapter plate
28 309233	Mini adapter plate for DIN rail mounting (with M4 screw)	silver	1 pc.		28. Mini adapter plate	

COPPER SOLUTIONS

Pre-assembled trunk cables

COPPER TRUNKS

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!



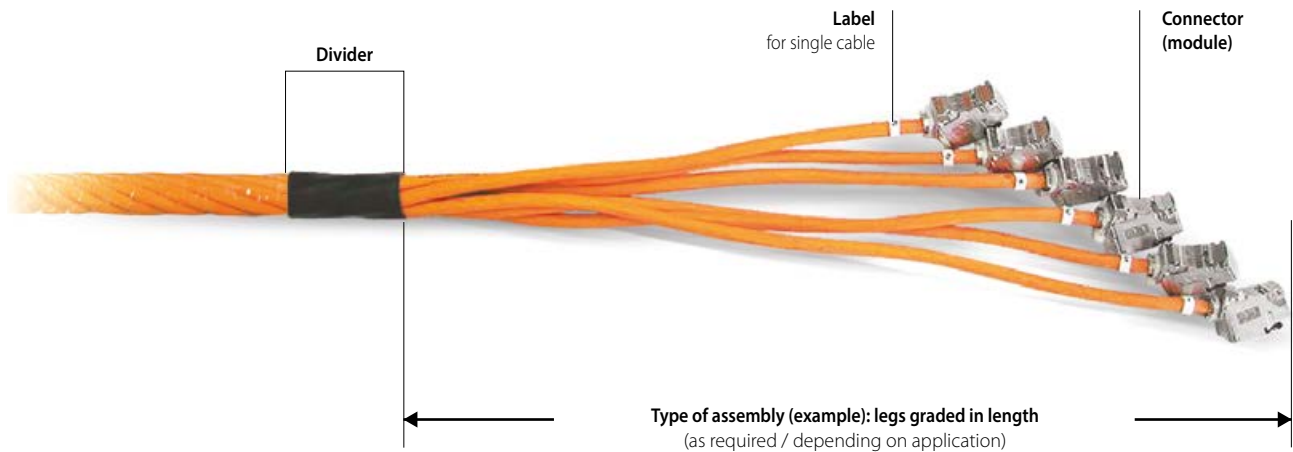
Modules and plugs for trunks

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

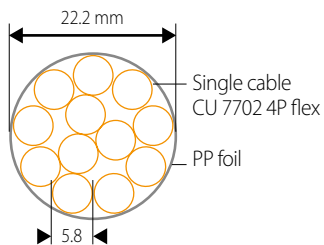
type	max. Class	application	Ø [mm]	max. length [m]	
Flexible tube/braid cables					
3-fold	CU 7702 3x4P flex	F	min. 10GBase-T	12	60
6-fold	CU 7702 6x4P flex	F	min. 10GBase-T	20	60
8-fold	CU 7702 8x4P flex	F	min. 10GBase-T	22	60
12-fold	CU 7702 12x4P flex	F	min. 10GBase-T	27	60
16-fold	CU 7702 16x4P flex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

Length determination & design of pre-assembled copper trunks

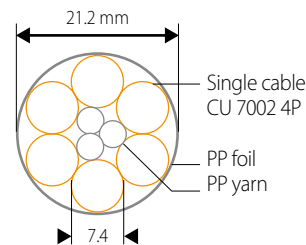


Dimensions

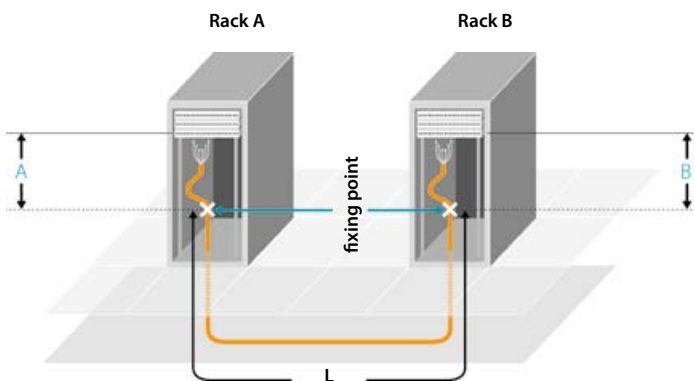
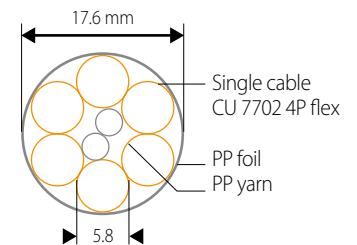
Flexible cable 12-fold
CU 7702 12x4P flex



Solid cable 6-fold
CU 7002 6x4P



Flexible cable 6-fold
CU 7702 6x4P flex



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

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,
KS-TC Plus, KU-TC Plus, KS-T Plus 1/8, KS-TS 1/8,
KU-T 1/8, KS-T 5 1/8



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,
KS-TC Plus, KU-TC Plus, KS-T Plus 1/8, KS-TS 1/8, MS-K Plus,
KU-T 1/8, KS-T 5 1/8



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

RJ45 couplers, shielded

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)



Keystone, 180° straight:
Keystone ports on both sides

Field assembly plugs, IP20

Cat.6_A, angled or straight



RJ45 plug IP20, Cat. 6_A,
shielded, 180° straight,
for field assembly

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.
418078	RJ45 plug, IP20, Cat.6 _A , shielded, 90° angled, for field assembly	metall	1 pc.
417523	RJ45 plug, IP20, Cat.6 _A , shielded, 180° straight, for field assembly	metall	1 pc.

Rail adapters



Rail adapter Keystone
IP20



Rail adapter Keystone

Article No.	Description	Colour/material	PU
418026	Rail adapter Keystone IP20 for 1 module with Keystone fitting (delivery without module)	grey	1 pc.
418025	Rail adapter Keystone for 1x KS-T/KU-T/KS-TC (delivery without module)	metal	1 pc.

COPPER SOLUTIONS

Systems with IP protection class

AP Outlet, IP44 surface/duct mounted for 2 modules



IP44 outlet for
2 Keystone modules,
lockable



IP44 outlet for
2 Keystone 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.

AP Outlet, IP67 surface mounted for 1 or 2 modules



IP67 outlet for
1 RJ45 module



IP67 outlet for
2 RJ45 modules

Article No.	Description	Colour/material	PU
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



IP67 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.

FIBRE OPTIC SOLUTIONS

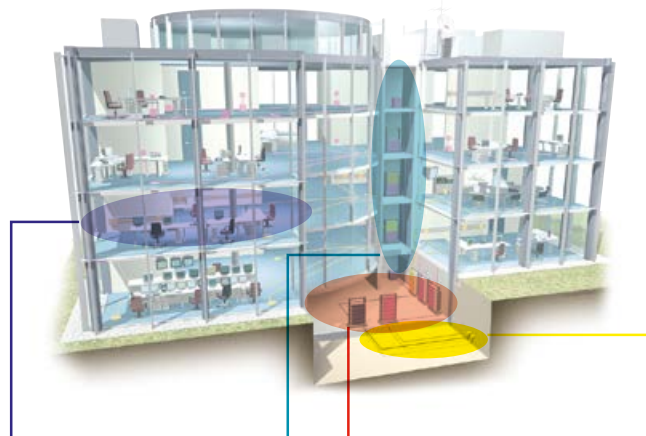
Conclusive fibre optic systems

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.

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

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

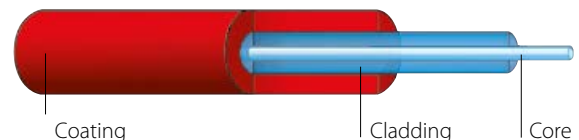
- Link length
- Application
- Future performance
- Power budget
- Environmental requirements

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.



Single-mode E9/125

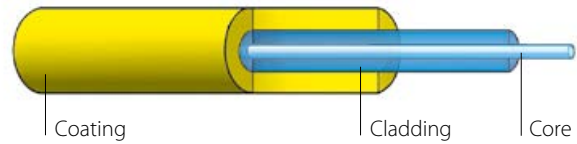
Optical single-mode fibre cable transmission performance parameters

Classification	Optical fibre type	Application	Wavelength [nm]	Maximum attenuation [dB/km]	Maximum attenuation Datwyler G.652.D (OS2) [dB/km]	Maximum attenuation Datwyler G.652.D (BLO) (OS2 bend optimized) [dB/km]
ITU-T G.652.D	Single-mode	Backbone (Campus)	1310	0.4	0.34	n/a
OS2		Data Centre	1550	0.3	0.21	n/a
ITU-T G.652.D (BLO)	Single-mode	Backbone (Campus)	1310	0.4	n/a	0.34
OS2 bend optimized		Data Centre	1550	0.3	n/a	0.21

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 transmitter 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. This has led the industry to exploit the higher intrinsic bandwidth of 50/125 µm fibre when developing higher-performance multimode fibre systems.



Multimode G50/125

Optical multimode fibre cable transmission performance parameters

Wavelength	[nm]	PRODUCT PARAMETERS		STANDARD SPEC.	
		850	1300	850	1300
Attenuation typical (cabled)	[dB/km]	2.4	0.6		
Attenuation maximum (cabled)	[dB/km]	2.7	0.7	3	1.5
OFL bandwidth as per TIA/EIA 455-204 and IEC 60793-1-41	[MHz x km]	3500	500	3500	500
High-Performance EMB bandwidth as per TIA/EIA 455-220A and IEC 60793-1-49	[MHz x km]	4700		4700	
Refractive Index		1.482	1.477		

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 lengths 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.

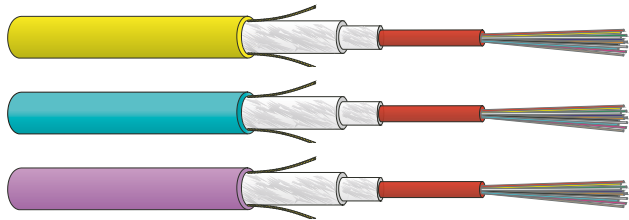
However, too small bending radii should be avoided to extend the lifetime of fibre optic cables (and optical fibres).

The bend optimized G50/125 fibres are fully compatible with "traditional" G50/125 fibres as described in the standard.

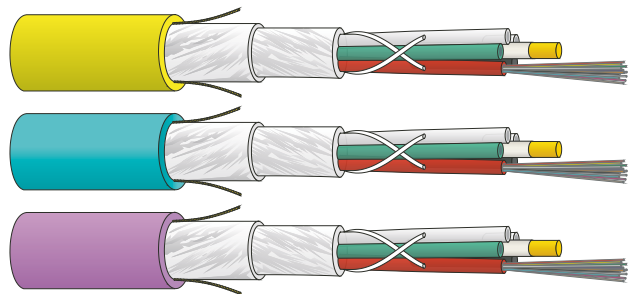
FIBRE OPTIC CABLES

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 www.cabling.datwyler.com.

FO Indoor szGGFR, 24-144 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 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.
For the available Euroclasses please refer to the online data sheets on www.cabling.datwyler.com.

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

coating buffer, flame retardant
in accordance with IEC 60794-2-20



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

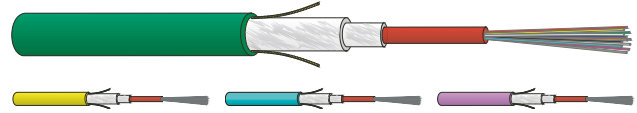
I-M(ZN)H Description	Fibres number	Article No. E9/125 G.652.D BLO sheath colour: yellow
FO Indoor FTTH	4	19455000DZ

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 www.cabling.datwyler.com.

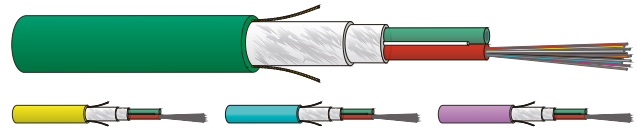
FO Universal U-DQ(ZN)BH

For indoor and outdoor use

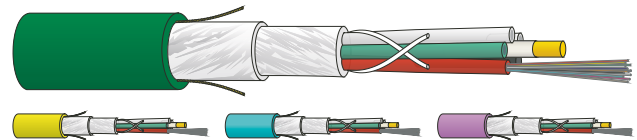
metal-free, dry interstices,
rodent protection, flame retardant,
in accordance with IEC 60332.1 and IEC 60332.3 C



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 number	Article No. E9/125 G.652.D BLO	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal ZGGFR	1 x 4	4	on request	19020300DZ	18598900DZ	19271200DZ
FO Universal ZGGFR	1 x 6	6	on request	19020400DZ	19011200DZ	19336000DZ
FO Universal ZGGFR	1 x 8	8	on request	19020500DZ	18595900DZ	18736300DZ
FO Universal ZGGFR	1 x 12	12	19331400DZ	19007700DZ	18635000DZ	19125100DZ
FO Universal ZGGFR	2 x 12	24	on request	19007100DZ	18643200DZ	19125200DZ
FO Universal ZGGFR	1 x 12	12	on request	19297000DZ	19296800DZ	19296900DZ
FO Universal ZGGFR	1 x 24	24	19333700DZ	18735400DZ	19175500DZ	19271300DZ
FO Universal-Hybrid ZGGFR	1x 12 E9 + 1x 12 G50*	24	on request	on request	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 number	Article No. E9/125 G.652.D BLO	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal wbGGFR	3 x 12	36	19020700EZ	on request	19267800EZ
FO Universal wbGGFR	4 x 12	48	19020800EZ	18648600EZ	19127800EZ
FO Universal wbGGFR	5 x 12	60	19020900EZ	18664200EZ	on request
FO Universal wbGGFR	6 x 12	72	19021000EZ	18653900EZ	on request
FO Universal wbGGFR	8 x 12	96	18674700EZ	18654000EZ	19271400EZ
FO Universal wbGGFR	10 x 12	120	19021100EZ	18653600EZ	on request
FO Universal wbGGFR	12 x 12	144	19021200EZ	19171000EZ	19271500EZ

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

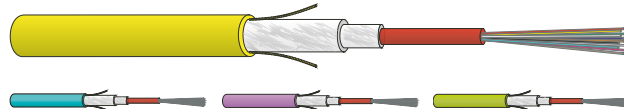
Also available with **sheath colour according to fibre type** (OS2 = yellow, OM3 = turquoise, OM4 = violet, OM5 = lime) on request.

FIBRE OPTIC SOLUTIONS

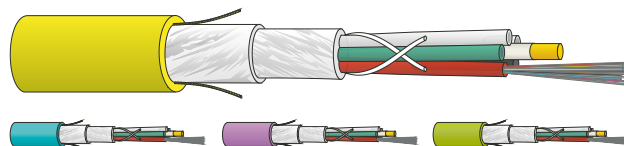
Cables

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

metal-free, dry interstices, gel-free loose tube,
rodent protection, flame retardant,
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	Fibres	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
Description			E9/125 G.652.D BLO (sheath colour: yellow)			G50/125 OM3 (sheath colour: turquoise)		
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	19706700CZ	19706700BZ	19708100DZ	19708100CZ	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			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	Fibres	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
Description			E9/125 G.652.D BLO (sheath colour: yellow)			G50/125 OM3 (sheath colour: turquoise)		
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 DLTS	10 x 12	120	19710400DZ	19710400CZ	19710400BZ	on request	on request	on request
FO Universal DLTS	12 x 12	144	19710500DZ	19710500CZ	19710500BZ	19710900DZ	19710900CZ	19710900BZ
Description			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	19707000CZ	19707000BZ	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 Universal DLTS	10 x 12	120	on request	on request	on request	on request	on request	on request
FO Universal DLTS	12 x 12	144	19708900DZ	19708900CZ	19708900BZ	on request	on request	on request

FO Universal ... Safety / U-DQ(ZN)BH

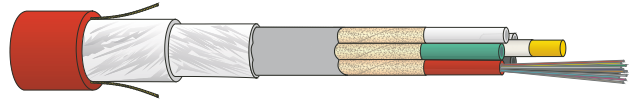
Safety cables E30 for indoor and outdoor use

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	on request	on request	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 www.cabling.datwyler.com

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

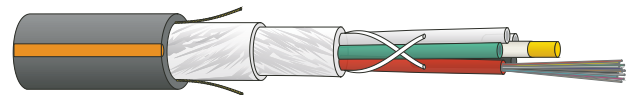
central tube design, non metallic,
water resistant, rodent protection



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

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

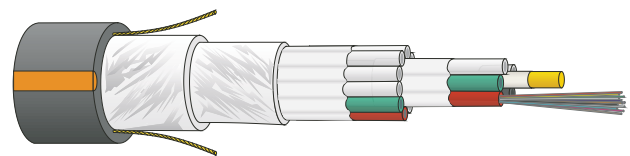
non metallic, dry interstices,
water resistant, rodent protection



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

FO Outdoor wbGGT SMALL / A-DQ(ZN)B2Y Small, 2-layer

non metallic, dry interstices,
water resistant, rodent protection



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

FO Outdoor ZGGT HP, ≤ 24 fibres

A-DQ(ZN)B2Y Description	1 x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. 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, 12-576 fibres

A-DQ(ZN)B2Y Description	n x m	Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM3	Article No. 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	3 x 12	36	19005800FZ	on request	on request
FO Outdoor wbGGT HP	4 x 12	48	18738500FZ	19036900FZ	on request
FO Outdoor wbGGT HP	5 x 12	60	19017100FZ	on request	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	on request
FO Outdoor wbGGT HP	10 x 12	120	19017500FZ	19269700FZ	on request
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 SMALL, ≤ 24 fibres

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

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	Color front plate	Number of adapters	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.

FIBRE OPTIC SOLUTIONS

Patch panels

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.

FIBRE OPTIC SOLUTIONS

Patch panels



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	Adapte	Colour adapter	Fibre type	Housing
441525000ZY	Breakout box OV-S	light grey	6	LCD	blue	E9/125 OS2	
41542300ZY	Breakout box OV-S	black	6	LCD	blue	E9/125 OS2	
41525400ZY	Breakout box OV-S	light grey	12	LCD	blue	E9/125 OS2	
41542400ZY	Breakout box OV-S	black	12	LCD	blue	E9/125 OS2	
41525800ZY	Breakout box OV-S	light grey	24	LCD	blue	E9/125 OS2	
41526200ZY	Breakout box OV-S	light grey	6	SCD	blue	E9/125 OS2	
41526600ZY	Breakout box OV-S	light grey	12	SCD	blue	E9/125 OS2	
41527000ZY	Breakout box OV-S	light grey	24	SCD	blue	E9/125 OS2	
41531900ZY	Breakout box OV-S	light grey	6	LSH/APC	green	E9/125 OS2	
41532100ZY	Breakout box OV-S	light grey	12	LSH/APC	green	E9/125 OS2	
41532300ZY	Breakout box OV-S	light grey	24	LSH/APC	green	E9/125 OS2	
41520700ZY	Breakout box OV-S	light grey	24	LCQ	blue	E9/125 OS2	
415403	Breakout box OV-S	light grey	24	LCQ	blue	E9/125 OS2	polymer

Variants on request.

FIBRE OPTIC SOLUTIONS

Patch panels



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 type
41547400ZY	Breakout box OV-S	light grey	6	LSH	heather violet	G50/125 OM4
41547500ZY	Breakout box OV-S	light grey	12	LSH	heather violet	G50/125 OM4
41547600ZY	Breakout box OV-S	light grey	24	LSH	heather violet	G50/125 OM4
41525300ZY	Breakout box OV-S	light grey	6	LCD	heather violet	G50/125 OM4
41542500ZY	Breakout box OV-S	black	6	LCD	heather violet	G50/125 OM4
41525700ZY	Breakout box OV-S	light grey	12	LCD	heather violet	G50/125 OM4
41542700ZY	Breakout box OV-S	black	12	LCD	heather violet	G50/125 OM4
41526100ZY	Breakout box OV-S	light grey	24	LCD	heather violet	G50/125 OM4
41534300ZY	Breakout box OV-S	black	24	LCD	heather violet	G50/125 OM4
41526500ZY	Breakout box OV-S	light grey	6	SCD	heather violet	G50/125 OM4
41543100ZY	Breakout box OV-S	black	6	SCD	heather violet	G50/125 OM4
41526900ZY	Breakout box OV-S	light grey	12	SCD	heather violet	G50/125 OM4
41543300ZY	Breakout box OV-S	black	12	SCD	heather violet	G50/125 OM4
41527300ZY	Breakout box OV-S	light grey	24	SCD	heather violet	G50/125 OM4
41543600ZY	Breakout box OV-S	black	24	SCD	heather violet	G50/125 OM4
41529600ZY	Breakout box OV-S	light grey	24	LCQ	heather violet	G50/125 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 type
41525200ZY	Breakout box OV-S	light grey	6	LCD	turquoise	G50/125 OM3
41542600ZY	Breakout box OV-S	black	6	LCD	turquoise	G50/125 OM3
41525600ZY	Breakout box OV-S	light grey	12	LCD	turquoise	G50/125 OM3
41542800ZY	Breakout box OV-S	black	12	LCD	turquoise	G50/125 OM3
41526000ZY	Breakout box OV-S	light grey	24	LCD	turquoise	G50/125 OM3
41543000ZY	Breakout box OV-S	black	24	LCD	turquoise	G50/125 OM3
41526400ZY	Breakout box OV-S	light grey	6	SCD	turquoise	G50/125 OM3
41543200ZY	Breakout box OV-S	black	6	SCD	turquoise	G50/125 OM3
41526800ZY	Breakout box OV-S	light grey	12	SCD	turquoise	G50/125 OM3
41533500ZY	Breakout box OV-S	black	12	SCD	turquoise	G50/125 OM3
41527200ZY	Breakout box OV-S	light grey	24	SCD	turquoise	G50/125 OM3
41543500ZY	Breakout box OV-S	black	24	SCD	turquoise	G50/125 OM3
41528000ZY	Breakout box OV-S	light grey	24	LCQ	turquoise	G50/125 OM3

Variants on request.

FIBRE OPTIC SOLUTIONS

Accessories for patch panels

Blank covers and shutters



Shutter for SC Duplex

Shutter for LC Duplex and SC Simplex

Article No.	Description	Fibre type	Cover material	Colour	PU
1414887	Shutter for SCD	SM	polymer	blue	1 pc.
1414888	Shutter for SCD	SM	polymer	green	1 pc.
1414889	Shutter for SCD	MM	polymer	beige	1 pc.
414498	Shutter for SCD	MM	polymer	turquoise	1 pc.
414499	Shutter for SCD	MM	polymer	violet	1 pc.
414494	Shutter for LCD or SC simplex	SM	polymer	blue	1 pc.
414495	Shutter for LCD or SC simplex	SM	polymer	green	1 pc.
414492	Shutter for LCD or SC simplex	MM	polymer	beige	1 pc.
414493	Shutter for LCD or SC simplex	MM	polymer	turquoise	1 pc.
414496	Shutter for LCD or SC simplex	MM	polymer	violet	1 pc.

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.
418508	SCD	MM	ceramic	polymer	beige	flange	without	1 pc.
418509	SCD	MM	PB	polymer	turquoise	flange	without	1 pc.
418510	SCD	MM	ceramic	polymer	turquoise	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	turquoise	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	without flange	without	1 pc.
418526 ¹⁾	LCD	SM	ceramic	polymer	blue	without flange	without	1 pc.
418527 ¹⁾	LCD/APC	SM	ceramic	polymer	green	without flange	without	1 pc.
418528 ¹⁾	LCD	MM	ceramic	polymer	turquoise	without flange	without	1 pc.
418533 ¹⁾	LCD	MM	ceramic	polymer	violet	without flange	without	1 pc.
418517	LCQ	MM	ceramic	polymer	beige	flange	without	1 pc.
418518	LCQ	MM	ceramic	polymer	turquoise	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.
418522	SCD	MM	ceramic	metal		flange	yes	1 pc.
418523	SCD	SM	ceramic	metal		flange	yes	1 pc.
418524	SCD/APC	SM	ceramic	metal		flange	yes	1 pc.
418551	LSH/APC-M	SM	ceramic	polymer	green	threaded flange	yes	1 pc.
418553	LSH	MM	ceramic	polymer	beige	threaded flange	yes	1 pc.
418554	LSH	MM	ceramic	polymer	turquoise	threaded flange	yes	1 pc.
418555	LSH	MM	ceramic	polymer	violet	threaded flange	yes	1 pc.

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

FIBRE OPTIC SOLUTIONS

Patch cords and pigtails

Datwyler offers its patch cables with a broad range of connectors for individual customer needs. Please see our website.

FO patch cords SCD ...



FO patch cable SCD - ST



FO patch cable SCD - LCD

Connector type		Fibre type	Length in m / Article No.									
Side A	Side B		1	2	3	4	5	6	7	8	9	10
SCD	SC/APC	E09/OS2	421711	421712	421713	421714	421715	421716	421717	421718	421719	421720
SCD	SCD	E09/OS2	421111	421112	421113	421114	421115	421116	421117	421118	421119	421120
SCD	SCD	G50/OM4	431141	431142	431143	431144	431145	431146	431147	431148	431149	431150
SCD	SCD	G50/OM3	421131	421132	421133	421134	421135	421136	421137	421138	421139	421140
SCD	ST	E09/OS2	421211	421212	421213	421214	421215	421216	421217	421218	421219	421220
SCD	ST	G50/OM3	421231	421232	421233	421234	421235	421236	421237	421238	421239	421240
SCD	LCD	E09/OS2	421311	421312	421313	421314	421315	421316	421317	421318	421319	421320
SCD	LCD	G50/OM4	431341	431342	431343	431344	431345	431346	431347	431348	431349	431350
SCD	LCD	G50/OM3	421331	421332	421333	421334	421335	421336	421337	421338	421339	421340

FO patch cords LCD ...



FO patch cable LCD - SC/APC



FO patch cable LCD - LCD

Connector type		Fibre type	Length in m / Article No.									
Side A	Side B		1	2	3	4	5	6	7	8	9	10
LCD	SC/APC	E09/OS2	423711	423712	423713	423714	423715	423716	423717	423718	423719	423720
LCD	SCD	E09/OS2	421311	421312	421313	421314	421315	421316	421317	421318	421319	421320
LCD	SCD	G50/OM4	431341	431342	431343	431344	431345	431346	431347	431348	431349	431350
LCD	SCD	G50/OM3	421331	421332	421333	421334	421335	421336	421337	421338	421339	421340
LCD	ST	E09/OS2	422311	422312	422313	422314	422315	422316	422317	422318	422319	422320
LCD	ST	G50/OM3	422331	422332	422333	422334	422335	422336	422337	422338	422339	422340
LCD	LCD	E09/OS2	423311	423312	423313	423314	423315	423316	423317	423318	423319	423320
LCD	LCD	G50/OM4	433341	433342	433343	433344	433345	433346	433347	433348	433349	433350
LCD	LCD	G50/OM3	423331	423332	423333	423334	423335	423336	423337	423338	423339	423340

Patch cords with Duplex connectors on both ends are delivered with a single Duplex clip which is not fixed to enable a change of polarity.

FIBRE OPTIC SOLUTIONS

Patch cords and pigtails

FO patch cords ST ...



FO patch cable ST - SCD

Connector type		Fibre type	Length in m / Article No.									
Side A	Side B		1	2	3	4	5	6	7	8	9	10
ST	SC/APC	E09/OS2	422711	422712	422713	422714	422715	422716	422717	422718	422719	422720
ST	SCD	E09/OS2	421211	421212	421213	421214	421215	421216	421217	421218	421219	421220
ST	SCD	G50/OM3	421231	421232	421233	421234	421235	421236	421237	421238	421239	421240
ST	ST	E09/OS2	422211	422212	422213	422214	422215	422216	422217	422218	422219	422220
ST	ST	G50/OM3	422231	422232	422233	422234	422235	422236	422237	422238	422239	422240
ST	LCD	E09/OS2	422311	422312	422313	422314	422315	422316	422317	422318	422319	422320
ST	LCD	G50/OM3	422331	422332	422333	422334	422335	422336	422337	422338	422339	422340
ST	LCD	G50/OM4	422301	422302	422303	422304	422305	422306	422307	422308	422309	422310

FO patch cords LSH/APC ...



FO patch cable LSH/APC - LSH/APC

Connector type		Fibre type	Length in m / Article No.									
Side A	Side B		1	2	3	4	5	6	7	8	9	10
LSH/APC	LSH/APC	E09/OS2	428811	428812	428813	428814	428815	428816	428817	428818	428819	428820

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

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

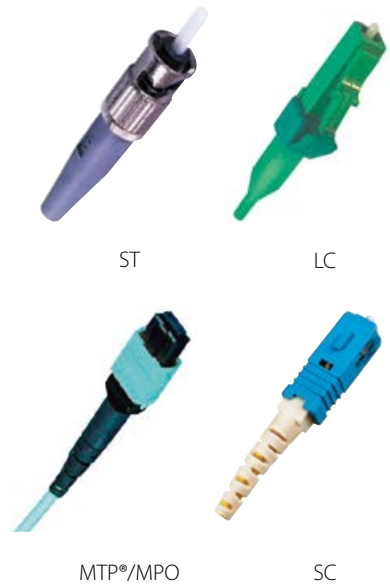
FIBRE OPTIC SOLUTIONS

Connector termination

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.

Ferrule material: zirconia
 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



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 pigtailed.

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



MTP® is a registered brand name of US Conec.

Please visit our website for more information and products

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	
2	41180000ZY	-	-	-	-	41181000ZY	-	-	-	-	
4	40609800ZY	40642100ZY	41660100ZY	41713100ZY	41721800ZY	40724400ZY	41509600ZY	41721900ZY	41500100ZY	41722200ZY	
6	40771800ZY	40765800ZY	41501800ZY	41721300ZY	40771900ZY	40777800ZY	41501400ZY	41501000ZY	41722100ZY	41500600ZY	
8	40675800ZY	40777700ZY	41502800ZY	41721400ZY	40581800ZY	41092300ZY	41713200ZY	41722000ZY	41500200ZY	41722300ZY	
12	40640300ZY	40679400ZY	41501900ZY	41721500ZY	40772000ZY	40703500ZY	41501500ZY	41501100ZY	41500300ZY	41500700ZY	
24	40678000ZY	40859700ZY	41502000ZY	41721600ZY	40852900ZY	40624200ZY	41501600ZY	41501200ZY	41500400ZY	41500800ZY	
48	-	-	41502100ZY	-	-	40676800ZY	41501700ZY	-	-	41500900ZY	

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

Breakout assembly	Connector type	Number of connectors	Multimode fibre	Single-mode fibre
			Article No.	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

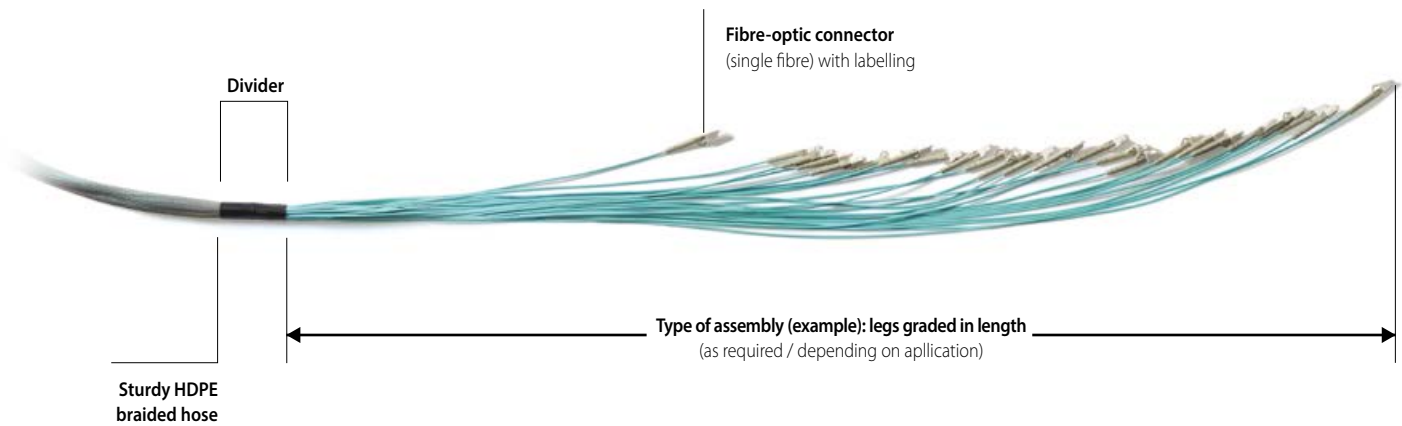
Attention: please order the breakout cable separately - according to your individual needs.
When ordering a trunk cable please ensure that the specified length of the trunk cable is defined by the length of the longest single-fibre cable. This means: the total length of the trunk cable is the length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

FIBRE OPTIC SOLUTIONS

Pre-assembled trunk cables

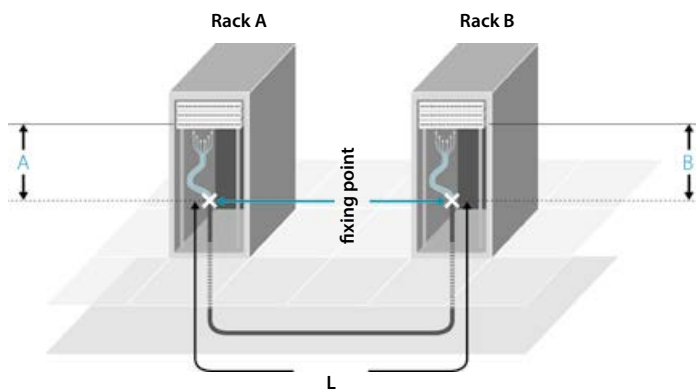
FLEXIBLE TRUNKS

Length determination & design of pre-assembled FO trunks



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.



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

IN-HOUSE CABLING

Building entry point (BEP)

DATpoint TWO - IR, BEP = Building Entry Point

A modular big all-rounder as a pre-assembled kit, ready for use. Ideal for access, in-house and floor distribution. Available in different sizes, depending on the number of fibres. SE trays with optional GPON/splitter holder (70 x 20 x 6 mm).



Article No.	Product	Base type/ports	Modules	No. of trays	Fibres	Dimensions
343230	BEPIR-DXFXT4SX 2	T 12/-/2	4	12x IR-SE-ANT (max. 24)	288 (max. 576)	D: 250 x 100 x 615 mm
343312	BEPIR-BXFXT1XX	T 12/-/2	1	-	-	B: 250 x 100 x 330 mm
343912	BEPIR-CXFXT3XX	T 12/-/2	3	-	-	C: 250 x 100 x 470 mm
344312	BEPIR-DXFXT5XX	T 12/-/2	5	-	-	D: 250 x 100 x 615 mm
343252	BEPIR-EXFXT7XX	T 12/-/2	7	-	-	E: 250 x 100 x 760 mm
343315	BEPIR-BXFXT1XS	T 12/-/2	1	12x IR-SC-B ANT	144	B: 250 x 100 x 330 mm
343915	BEPIR-CXFXT3XS	T 12/-/2	3	36x IR-SC-B ANT	432	C: 250 x 100 x 470 mm
344315	BEPIR-DXFXT5XS	T 12/-/2	5	60x IR-SC-B ANT	720	D: 250 x 100 x 615 mm
343255	BEPIR-EXFXT7XS	T 12/-/2	7	84x IR-SC-B ANT	1008	E: 250 x 100 x 760 mm

Part number identification: B E P I R - [] [] [] [] [] [] [] [] [] []

Step 1: size	Step 2: front/locking system	Step 3: base type	Step 4: tray holder	Step 5: tray type (max. capacity)
BX – B size	FX* – 4-flange key	T* – 12/-/2 ports	1* – IR routing module**	XW* – SC/3A + crimp/ANT
CX – C size	TX – 3-flange key	N – 6/3/2 ports	for 6 SE/12 SC trays	XN – SC-B/3A heat shrink
DX – D size	BX – Skeleton key	S – -/6/2 ports	depending on size	XS – SC-B/ crimp/ANT
EX – E size	KX – KABA key		up to 7 modules	SX – SE/ crimp/ANT
	EX – KESO key			WX – SE/3A heat shrink
	XM – Metal front		X – no tray holder	XX – no trays, order separately

* standard configuration / ** inclusive 1x IR fibre entry and fibre storage element

Fibre optic distribution boxes

DATpoint THREE - IR, BEP = Building Entry Point

Ideal for access, in-house and floor distribution. SE trays with optional GPON/splitter holder (70 x 20 x 6 mm).



Article No.	Product	Base type/ports	Modules	Number of trays	Fibres	Dimensions
343250	BEPIR-AXFXF1XW 6NE	F 4/-/2	1	6x IR SC (max. 12)	24 (max. 48)	A: 198 x 80 x 215mm
344411	BEPIR-AXFXF1XX	F 4/-/2	1	-	-	A: 198 x 80 x 215mm
344414	BEPIR-AXFXF1XS	F 4/-/2	1	12x IR-SC-B ANT	144	A: 198 x 80 x 215mm

Part number identification: B E P I R - A X [] [] [] [] [] [] [] [] [] []

Step 1: size	Step 2: front/locking system	Step 3: base type	Step 4: tray holder	Step 5: tray type (max. capacity)
AX – A size	FX* – 4-flange key	F* – 4/1/- ports	1 – R routing module	XW* – SC/3A + crimp/ANT
	TX – 3-flange key			XN – SC-B/3A heat shrink
	BX – Skeleton key			XS – SC-B/ crimp/ANT
	KX – KABA key			SX – SE/ crimp/ANT
	EX – KESO key			WX – SE/3A heat shrink
	XM – Metal front			XX – no trays, order separately

* standard configuration

FIBRE OPTIC SOLUTIONS

Broadband Networks

FO Indoor FTTH / I-M(ZN)H

2.2 mm, LSZH, for indoor use

Coating buffer, flame retardant, in accordance with IEC 60794-2-20



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

I-M(ZN)H, 2.2 mm	Fibres	Article No.
Description	number	with E9/125 G.652.D BLO
FO Indoor FTTH	4	19455000DZ

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 www.cablng.datwyler.com.

FTTH data outlet AP 80 x 80

SC/APC or LCD/APC design

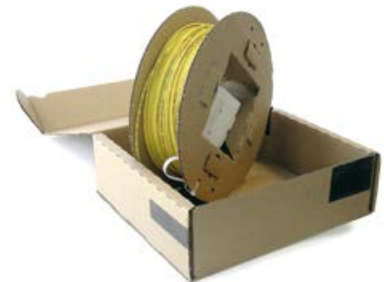
surface mounted, also on top of installation cups



Article No.	Product	Description	Colour (similar to)	PU
418606	FTTH data outlet AP	1x LCD/APC	pure white	1 pc.
418607	FTTH data outlet AP	2x LCD/APC	pure white	1 pc.
418608	FTTH data outlet AP	1x LCD/APC / 1x LC/APC	pure white	1 pc.
418609	FTTH data outlet AP	2x LCD/APC / 4x LC/APC	pure white	1 pc.
418610	FTTH data outlet AP	1x SC/APC	pure white	1 pc.
418611	FTTH data outlet AP	2x SC/APC	pure white	1 pc.
418612	FTTH data outlet AP	1x SC/APC / 1x SC/APC	pure white	1 pc.
418613	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.	Product	Description	Cable length	PU
418615	FTTH installation kit	2x LC/APC in LCD/APC adapter	10 m	1 set
418616	FTTH installation kit	2x LC/APC in LCD/APC adapter	15 m	1 set
418617	FTTH installation kit	2x LC/APC in LCD/APC adapter	20 m	1 set
418618	FTTH installation kit	2x LC/APC in LCD/APC adapter	25 m	1 set
418619	FTTH installation kit	2x LC/APC in LCD/APC adapter	30 m	1 set
418620	FTTH installation kit	2x LC/APC in LCD/APC adapter	35 m	1 set
418621	FTTH installation kit	2x LC/APC in LCD/APC adapter	40 m	1 set
418622	FTTH installation kit	2x LC/APC in LCD/APC adapter	45 m	1 set
418623	FTTH installation kit	2x LC/APC in LCD/APC adapter	50 m	1 set
418624	FTTH installation kit	2x LC/APC in LCD/APC adapter	55 m	1 set
418625	FTTH installation kit	2x LC/APC in LCD/APC adapter	60 m	1 set
418634	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	10 m	1 set
418635	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	15 m	1 set
418636	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	20 m	1 set
418637	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	25 m	1 set
418638	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	30 m	1 set
418639	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	35 m	1 set
418640	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	40 m	1 set
418641	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	45 m	1 set
418642	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	50 m	1 set
418643	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	55 m	1 set
418644	FTTH installation kit	4x LC/APC in 2 LCD/APC adapters	60 m	1 set

DROP / FEEDER CABLING

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

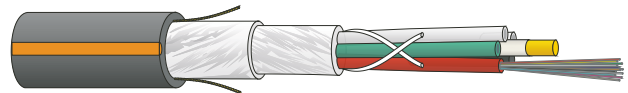
central tube design, metal-free,
longitudinally watertight, rodent protection



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

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

non metallic, dry interstices,
water resistant, rodent protection



FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12-288 fibres

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

metal-free, non-armoured,
dry interstices, longitudinally watertight



FO Outdoor ZKT Micro / A-DQ(ZN)2Y, ≤ 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, 12-288 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	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	12 x 12	144	18739400FZ
FO Outdoor wbGGT HP	6 x 24	144	19076400FZ
FO Outdoor wbGGT HP	9 x 24	216	19069600FZ
FO Outdoor wbGGT HP	12 x 24	288	19032500FZ

FO Outdoor ZKT Micro, Micro, up to 24 fibres

A-DQ(ZN)B2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D	Article No. with E9/125 G.652.D BLO
FO Outdoor ZKT Micro	1 x 12	12	4	19022700FZ	19134900FZ
FO Outdoor ZKT Micro	2 x 12	24	4	19123500FZ	19135000FZ

FIBRE OPTIC SOLUTIONS

Broadband Networks

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

very thin, metal-free, non-armoured, dry interstices, longitudinally watertight



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

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

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



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

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

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



FO Outdoor wbKT S-Micro / A-DQ(ZN)2Y, 12-576 fibres

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

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



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	Article No. with E9/125 G.652.D
FO Outdoor wbKT Micro	1 x 12	12	6.6	on request	19170600FZ
FO Outdoor wbKT Micro	2 x 12	24	6.6	19213100FZ	19008000FZ
FO Outdoor wbKT Micro	4 x 12	48	6.6	19185900FZ	19023000FZ
FO Outdoor wbKT Micro	5 x 12	60	6.6	19186000FZ	19023100FZ
FO Outdoor wbKT Micro	6 x 12	72	6.5	19185800FZ	19023200FZ
FO Outdoor wbKT Micro	8 x 12	96	7.6	19215800FZ	19181300FZ
FO Outdoor wbKT Micro	6 x 24	144	8.2	on request	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
FO Outdoor ZT S-Micro	1 x 4	4	2.4	19343400FZ
FO Outdoor ZT S-Micro	1 x 6	4	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	Article No. with E9/125 G.652.D
FO Outdoor wbKT S-Micro	2 x 12	24	4.2	19269300FZ	on request
FO Outdoor wbKT S-Micro	4 x 12	48	4.2	19215000FZ	on request
FO Outdoor wbKT S-Micro	8 x 12	96	6.6	19214900FZ	19215900FZ
FO Outdoor wbKT S-Micro	6 x 24	144	6.5	on request	19450000FZ
FO Outdoor wbKT S-Micro	9 x 24	216	8.4	on request	19262500FZ
FO Outdoor wbKT S-Micro	12 x 24	288	10.4	on request	19600000FZ

FO Outdoor wbKT C-Micro, 72 fibres

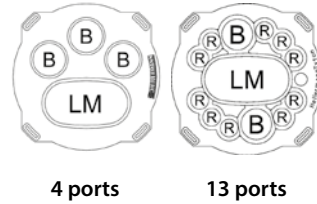
A-DQ(ZN)2Y Description	n x m	Fibres number	Sheath Ø mm	Article No. with E9/125 G.652.D BLO200
FO Outdoor wbKT C-Micro	3 x 24	72	4.1	19618000FZ

FIBRE OPTIC DOME CLOSURES

Our five lines of dome closures are available with two different fibre management systems: Integrated Routing (IR) and Tubed (TB) for use in underground, direct burial and aerial application. SE trays with optional GPON/splitter holder (70 x 20 x 6 mm).

Type FST (TB)

Cover size	Width D1 x D2	Length L	Hellapon™ Small tray	
			single tray	max. splice
A	110x110mm	310 mm	3(1)	72
Port	Number of ports	Cable diameter		
		Cablelok™	heat shrink	
LM	1	2x 4.0 – 15.0 mm	2x 8.0 – 22.0 mm	
B	2 or 3	4.8 – 16.5 mm	6.0 – 19.0 mm	
R	10	1.7 – 9.5 mm	-	



Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres
345901	FSTTB-AXBTA15	110 x 110 x 310 mm	13 ports Cablelok	1 Hellapon Small	ANT	24
345916	FSTTB-AXXTA35	110 x 110 x 310 mm	13 ports Cablelok	3 Hellapon Small	ANT	72
345921	FSTTB-AXBFA15	110 x 110 x 310 mm	4 ports Cablelok	1 Hellapon Small	ANT	24
345916	FSTTB-AXXFA35	110 x 110 x 310 mm	4 ports Cablelok	3 Hellapon Small	ANT	72

For other variants and accessories please visit our website.

Part number identification:

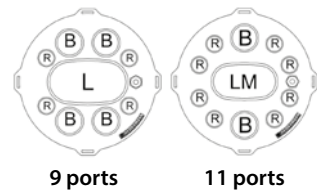
Enclosure type: F S T T B Size: A X Basket: Tray type: Base: A Number of trays: Splice type:

Step 1: size	Step 2: base	Step 3: number of trays	Step 4: splice type
X – no trays	T – 13 ports	1 – 1 VE	1 – 3A heat shrink
B – Loop tray, with 1 Hellapon Small tray	F – 4 ports, with max. 1 Hellapon Small tray	2 – 2 VE 3 – 3 VE	5 – ANT crimp 7 – X no insert

** standard configuration / ** inclusive 1x IR fibre entry and fibre storage element*

Type FRBU (TB)

Cover size	Width D1 x D2	Length L	Hellapon™ Medium tray	
			single tray	max. splice
A	110x110mm	435 mm	6(6)	144
B	110x110mm	505 mm	6(6)	144
Port	Number of ports	Cable diameter		
		Cablelok™	heat shrink	
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm	
LM	1	2x 4.0 – 15.0 mm	2x 8.0 – 22.0 mm	
B	2 or 3	4.8 – 16.5 mm	6.0 – 19.0 mm	
R	10	1.7 – 9.5 mm	-	



Article No.	Product	Dimensions	Base cable entries/seal	Number and type of tray	Splice type	Fibres
346041	FRBTB-BXBEC35	130 x 130 x 505 mm	11 Port Cablelok	3 Hellapon Medium, pivoting	ANT	72
346056	FRBTB-BXEC65	130 x 130 x 505 mm	11 Port Cablelok	6 Hellapon Medium, pivoting	ANT	144
346076	FRBTB-BXBNC35	130 x 130 x 505 mm	9 Port Cablelok	3 Hellapon Medium, pivoting	ANT	72
346091	FRBTB-BXBNC35	130 x 130 x 505 mm	9 Port Cablelok	6 Hellapon Medium, pivoting	ANT	144

For other variants and accessories please visit our website.

Cablelok™ and Hellapon™ are registered trademarks of HellermannTyton.

Part number identification:

Enclosure type: F R B T B Size: Basket: Base: Tray type: Number of trays: Splice type:

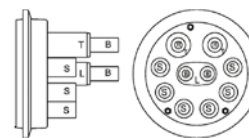
Step 1: size	Step 2: basket	Step 3: base	Step 4: tray type	Step 5: number of trays	Step 6: splice protection
AX – A length	X – no basket	N – 9 ports	A – Hellapon Small (1/VE)	1 – 1 pack	1 – 3A heat shrink
BX – B length	B – Loop basket, only with 3 side hinged Hellapon Medium splice trays	E – 11 ports	B – Hellapon Medium (1/VE)	2 – 2 packs 3 – 3 packs 4 – 4 packs 5 – 5 packs 6 – 6 packs	5 – crimp/ANT 7 – X no insert

FIBRE OPTIC SOLUTIONS

Broadband Networks

Type FML-IR

Port	Number of ports	Cable diameter	
		Cablelok™	heat shrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
T	2	5.5 – 29.0 mm	8.0 – 35.0 mm
S	6	5.0 – 20.0 mm	12.0 – 26.0 mm
B	4	4.8 – 16.5 mm	6.0 – 19.0 mm



10 ports



Article No.	Product	Dimensions	Cable entry seal	Number and type of tray	Splice type	Fibres
345781	FMLIR-CXXCSX	C: 220 x 275 x 748 mm	Cablelok, heat shrink	30 IR Single Element (SE)	ANT	720
345801	FMLIR-BCXCSX	BC: 220 x 275 x 668 mm	Cablelok, heat shrink	24 IR Single Element (SE)	ANT	576
345821	FMLIR-BXXCSX	B: 220 x 275 x 598 mm	Cablelok, heat shrink	18 IR Single Element (SE)	ANT	432

For other variants and accessories please visit our website.

Part number identification

Enclosure type: F M L I R Length: Basket: Tray type: C

Step 1: length	Step 2: basket or double stack	Step 3: base	Step 4: tray type (splice type)
BX – B length	B – Loop storage basket	C – Standard	WX – SE splice trays (3A heat shrink splice protection)
BC – BC length	X – no loop storage basket		SX – SE splice trays (ANT/crimp splice protection)
CX – C length			XW – SC splice trays (3A or ANT/crimp splice protection)
			XN – SC-B splice trays (3A heat shrink splice protection)
			XS – SC-B splice trays (ANT/crimp splice protection)
			XX – no splice trays, order separately

Type FDN-IR

Port	Number of ports	Cable diameter	
		Cablelok™	heatshrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
T	2	5.5 – 29.0 mm	8.0 – 35.0 mm
S	4	5.0 – 20.0 mm	12.0 – 26.0 mm
B	2	4.8 – 16.5 mm	6.0 – 19.0 mm
R	52	1.7 – 9.5 mm	-



59 ports

16 ports



Article No.	Product	Dimensions	Cable entry seal	Number and type of tray	Splice type	Fibres
346158	FDNIR-CXXASX	C: 312 x 222 x 789 mm	Cablelok, heat shrink	36 IR Single Element (SE)	ANT	864
346172	FDNIR-BXXASX	B: 312 x 222 x 663 mm	Cablelok, heat shrink	24 IR Single Element (SE)	ANT	576
345651	FDNIR-ABXCSX	AB: 312 x 222 x 561 mm	Cablelok, heat shrink	12 IR Single Element (SE)	ANT	288
345681	FDNIR-AXXCSX	B: 312 x 222 x 455 mm	Cablelok, heat shrink	6 IR Single Element (SE)	ANT	144

For other variants and accessories please visit our website.

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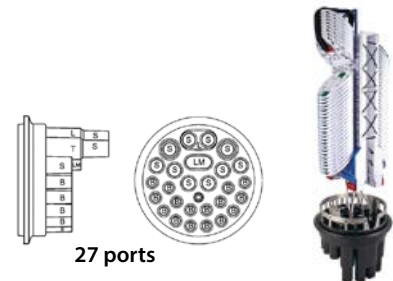
Part number identification

Enclosure type: F D N I R Length: Basket: Tray type:

Step 1: length	Step 2: basket or double stack	Step 3: base	Step 4: tray type (splice type)
AX – A length	B – Loop storage basket	C – 59 ports	WX – SE splice trays (3A heat shrink splice protection)
AB – AB length	X – no loop storage basket	A – 16 ports	SX – SE splice trays (ANT/crimp splice protection)
BX – B length			XW – SC splice trays (3A or ANT/crimp splice protection)
CX – C length			XN – SC-B splice trays (3A heat shrink splice protection)
			XS – SC-B splice trays (ANT/crimp splice protection)
			XX – no splice trays, order separately

Type UFC-IR

Port	Number of ports	Cable diameter	
		Cablelok™	heat shrink
L	1	2x 5.5 – 20.0 mm	2x 10.0 – 24.0 mm
LM	1	2x 4.0 – 15.0 mm	2x 8.0 – 22.0 mm
T	2	5.5 – 29.0 mm	8.0 – 35.0 mm
S	10	5.0 – 20.0 mm	12.0 – 26.0 mm
B	16	4.8 – 16.5 mm	6.0 – 19.0 mm



27 ports

Article No.	Product	Dimensions	Cable entry seal	Number and type of tray	Splice type	Fibres
345201	UFCIR-CXDCSX	C: 312 x 222 x 789 mm	Cablelok, heat shrink	60 IR Single Element (SE)	ANT	1440
345261	UFCIR-BCDCSX	BC: 312 x 222 x 598 mm	Cablelok, heat shrink	36 IR Single Element (SE)	ANT	864
345321	UFCIR-BXDCSX	C: 312 x 222 x 549 mm	Cablelok, heat shrink	24 IR Single Element (SE)	ANT	576
345241	UFCIR-CXXCSX	C: 312 x 222 x 789 mm	Cablelok, heat shrink	30 IR Single Element (SE)	ANT	720
345301	UFCIR-BCXCSX	BC: 312 x 222 x 598 mm	Cablelok, heat shrink	18 IR Single Element (SE)	ANT	432
345361	UFCIR-BXXCSX	C: 312 x 222 x 549 mm	Cablelok, heat shrink	12 IR Single Element (SE)	ANT	288

For other variants and accessories please visit our website.

Part number identification

Enclosure type: **U F C I R** Length: Basket: Tray type:

Step 1: length	Step 2: basket or double stack	Step 3: base	Step 4: tray type (splice type)
BX – B length	B – Loop storage basket	C – Standard	WX – SE trays (3A heat shrink)
BC – BC length	X – no loop storage basket	H – Heat shrink	SX – SE trays (ANT/crimp)
CX – C length	D – Double tray stack		XW – SC trays (3A or ANT/crimp)
			XN – SC-B trays (3A heat shrink)
			XS – SC-B trays (ANT/crimp)
			XX – no trays, order separately

Cablelok™

Mechanical seal Cablelok for cables of different diameters.
Tool-less installation within 2 minutes (heat shrink: 20 minutes).
Can be used repeatedly.



Article No.	Product	Entry type	PU
345xxx	Cablelok seal for type R entry / xxx165 Ø 1.7 - 2.0 mm / xxx166 Ø 2x1.7 - 2.0 mm / xxx849 Ø 2.0 - 3.0 mm / xxx937 Ø 2x 2.0 - 3.0 mm / xxx167 Ø 3.0 - 3.8 mm / xxx168 Ø 2x3.8 - 4.8 mm / xxx169 Ø 3.8 - 5.2 mm / xxx170 Ø 5.2 - 8.0 mm / xxx171 Ø 6.0 - 8.5 mm / xxx172 Ø 8.0 - 9.5 mm / xxx173 cap	R	1 pc.
345xxx	Cablelok seal for type B entry / xxx160 Ø 4.8 - 9.0 mm / xxx161 Ø 8.0 - 14.0 mm / xxx162 Ø 13.0 - 16.5 mm / xxx163 cap	B	1 pc.
345xxx	Cablelok seal for type S entry / xxx174 Ø 5.0 - 8.5 mm / xxx175 Ø 8.0 - 12.0 mm / xxx176 Ø 2x 10.0 - 11.5 mm / xxx177 Ø 12.0 - 16.0 mm / xxx178 Ø 16.0 - 20.0 mm / xxx947 Ø 5x6.8 - 7.2 mm / xxx179 cap	S	1 pc.
345xxx	Cablelok seal for type T entry / xxx180 Ø 15.5 - 20.0 mm / xxx181 Ø 20.5 - 23.5 mm / xxx182 Ø 23.5 - 25.5 mm / xxx183 Ø 24.5 - 29.0 mm / xxx184 cap	T	1 pc.
345xxx	Cablelok seal for type L loop entry / xxx081 Ø 2x 5.5 - 9.5 mm / xxx082 Ø 2x 9.0 - 12.5 mm / xxx083 Ø 2x 12.0 - 15.0 mm / xxx084 Ø 2x 15.0 - 18.5 mm / xxx085 Ø 2x 18.3 - 20.0 mm / xxx086 cap	L	1 pc.
45xxx	Cablelok seal for type LM loop entry / xxx087 Ø 2x 4.0 - 6.5 mm / xxx088 Ø 2x 6.0 - 9.5 mm / xxx089 Ø 2x 9.0 - 12.5 mm / xxx090 Ø 2x 12.5 - 15.0 mm / xxx091 cap	LM	1 pc.

Cablelok™ is a registered trademark of HellermannTyton.

FIBRE OPTIC SOLUTIONS

Broadband Networks

Tube systems

Micro ducts

Micro ducts are used for the mechanical protection of fibre optic micro cables. For direct burial or for the laying in pipe systems.

The micro ducts are made from high density polyethylene (HDPE) or low smoke halogen free (LSHF).



Article No.*	Product	Installation type	Material	PU (drum and m)
3432xx	Micro duct DB 7/4 mm	direct burial	HDPE	6000 m
3433xx	Micro duct DB 8/5 mm	direct burial	HDPE	4800 m
3434xx	Micro duct DB 10/6 mm	direct burial	HDPE	3000 m
3436xx	Micro duct DB 12/8 mm	direct burial	HDPE	2000 m
3437xx	Micro duct DB 14/10 mm	direct burial	HDPE	1350 m
3438xx	Micro duct DB 16/12 mm	direct burial	HDPE	1000 m
3439xx	Micro duct DB 18/14 mm	direct burial	HDPE	2200 m
3435xx	Micro duct DI 5/3.5 mm	laying in pipes	HDPE	5000 m
3446xx	Micro duct DI 7/5.5 mm	laying in pipes	HDPE	6000 m
3440xx	Micro duct DI 8/6 mm	laying in pipes	HDPE	4800 m
3441xx	Micro duct DI 10/8 mm	laying in pipes	HDPE	3000 m
3442xx	Micro duct DI 12/10 mm	laying in pipes	HDPE	2000 m
3443xx	Micro duct DI 14/12 mm	laying in pipes	HDPE	1350 m
3444xx	Micro duct DI 16/14 mm	laying in pipes	HDPE	1000 m
3445xx	Micro duct DI 18/16 mm	laying in pipes	HDPE	1250 m
3447xx	Micro duct DI 5/3.5 mm	laying in pipes	LSHF	5000 m
3448xx	Micro duct DB 10/5.5 mm	direct burial	LSHF	3000 m
3449xx	Micro duct DB 14/10 mm	direct burial	LSHF	1350 m

Order quantity complies with drum capacity (no cuts!)

* Please replace the "xx" by the two digits for the required colour (see below) when ordering

Micro ducts are available in different colours: full colour or with stripes

Colour	Addition to article no.	Colour	Addition to article no.	Colour	Addition to article no.			
transparent	60	brown	RAL 8011	67	yellow	RAL 1016	74	
red	RAL 3020	61	purple	RAL 4005	68	blue	RAL 5021	75
dark green	RAL 6001	62	light green	RAL 6027	69	dark green	RAL 6001	76
light blue	RAL 5015	63	black	RAL 9017	70	green	RAL 6017	77
dark yellow	RAL 1021	64	orange	RAL 2009	71	dark brown	RAL 8017	78
white	RAL 9003	65	rose	RAL 3015	72	light brown	RAL 8023	79
grey	RAL 7045	66	ivory	RAL 1015	73			

Micro duct bundles

Micro ducts are used for the mechanical protection of fibre optic micro cables. For direct burial or for the laying in pipe systems. The micro ducts are made from high density polyethylene (HDPE) or low smoke halogen free (LSHF). Bundles are available in different variants. We'll be pleased to advise you.



Article No.	Product	Installation type	Material	PU (drum and m)
343208	Multi micro duct HPPE DB 12x7/4 mm, orange	direct burial	HDPE	3500 m
343209	Multi micro duct LSHF DI 12x5/3.5 mm, white	laying in pipes	LSHF	800 m

Other versions on request.

Micro duct accessories

Straight connectors, reduction connectors, end caps, waterproof end caps, gas block connectors, divisible gas blocks, safety clips, rubber protection caps, plastic caps, cutting tools (duct shear, minicutter, stripper), deburring tools, etc. are available on request. We'll be pleased to advise you.

DATWYLER AERIAL SOLUTION

Overhead solution for fibre broadband expansion

With this Aerial Solution, the micro cables are installed in non-metallic UV- and frost-resistant micro-ducts on the existing overhead infrastructure – i.e. on telecommunication masts or power poles. Apart from cost savings and a fast rollout, the advantage of this system is that it uses the same network architecture and the same network elements (BEP, OTO, cables), and can be installed by the same firms which install the conventional overhead power or telecommunications network.

The solution comprises 31 mm-thick multi-ducts suspended from steel tape (total height: 44 mm), 10 mm-thick drop ducts for connecting buildings, a branch-off duct closure, a roof entry, and various clamps, fixing components and the requisite tools.

Datwyler recommends the use of non-metallic, non-armoured and longitudinally watertight “FO Outdoor Micro” and “S-Micro” cables with external diameters of between 2.4 and 8.4 mm. These are available with 12 to 216 fibres as required.

Application

- For a simple and cost-efficient Fibre-to-the-Home (FtTH) rollout in rural areas
- For fibre broadband expansion without the need for time-consuming and expensive groundwork

System components

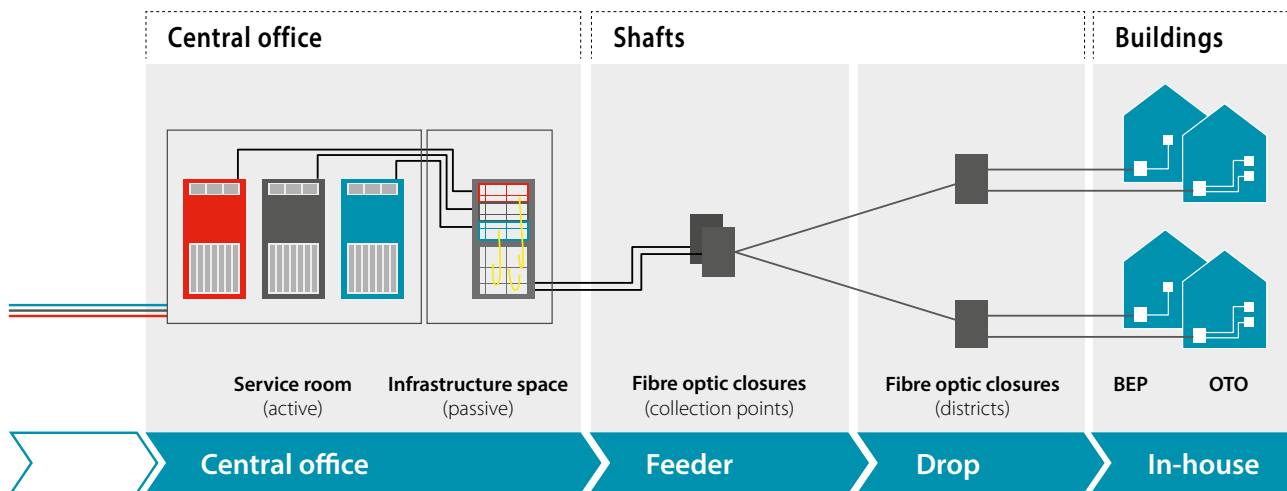
- Micro-duct bundles for pole mounting – micro ducts: 12x 5/3.5 mm (outer), 1x 14/10 mm (inner)
- Micro-duct 5/3.5 mm, single, for the connection to the building
- Branch-off duct closure, watertight, for the protection of up to 3 branches
- Anchoring clamps (2 versions) to fix bundles and single ducts to end or corner point poles
- Requisite pole fixing brackets
- Suspension clamps (2 versions) to fix bundles and single ducts to middle poles
- Stainless steel tape (and requisite buckle)
- House roof entry kit (heat shrink sealing)
- Stripping, separation, cutting and tensioning tools

Recommended cables:

Article No.	for micro-ducts 5/3.5 mm	Fibres	Sheath Ø
19343400FZ	FO Outdoor ZT S-Micro 1x 4 E9/125 G.652.D BLO	4	2.4 mm
19346000FZ	FO Outdoor ZT S-Micro 1x 12 E9/125 G.652.D BLO	12	2.4 mm
19343300FZ	FO Outdoor ZT S-Micro 1x 24 E9/125 G.652.D BLO	24	2.4 mm
Article No.	for micro-ducts 14/10 mm	Fibres	Sheath Ø
19023000FZ	FO Outdoor wbKT Micro 4x 12 E9/125 G.652.D	48	6.6 mm
19215900FZ	FO Outdoor wbKT S-Micro 8x 12 E9/125 G.652.D	96	6.6 mm
19450000FZ	FO Outdoor wbKT S-Micro 6x 24 E9/125 G.652.D	144	6.5 mm
19262500FZ	FO Outdoor wbKT S-Micro 9x 24 E9/125 G.652.D	216	8.4 mm



THE CENTRAL OFFICE - THE HEART OF FIBRE OPTIC INFRASTRUCTURE



CENTRAL OFFICE (POP)

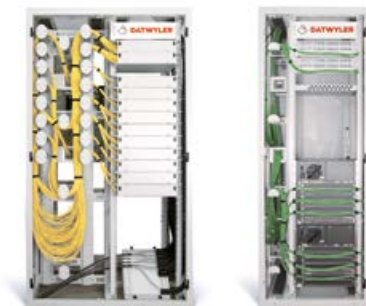
Optical distribution frames (ODF)

19"/47U passive

In FTTx backbone and distribution networks for passive components.

19"/47U active

In FTTx backbone and distribution networks for active components. Mobile or stationary deployment.



ODF passive

ODF active

Project-specific configurations are available on request.

Distribution boxes and optical drawers

19" splice boxes or breakout boxes are available in pivoting or telescopic versions, in customized configurations and with all current connector types such as LSH, SC and LCD (in PC or APC variants).

The splice boxes are ready for splicing, with prepared pigtails per 2 m, colour code: IEC 60304.



Pre-assembled fibre optic cables

Pre-assembles FO cables enable customers to work with ready-to-install fibre optic multiple cables (trunks) in the requested lengths and types. The trunks are made to customer specifications under laboratory conditions.



Patch and adapter cables, fibre pigtails

Please find an overview of available patch cables and pigtails as well as all data sheets on our website: www.cabling.datwyler.com/Products. Available connector types: SC, LC, LC/APC, LSH, FC/PC, SC/APC, LSH/APC...



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



HIGH-DENSITY DATA CENTRE SOLUTION (HD-DCS)

The HD-DCS offers users the same quality features as the FO-DCS plus more than twice the port density and even greater flexibility. The housings have integrated cable management, which makes installation and maintenance easier. Port labelling is also simpler and more flexible.

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})

Product details from page 71



DATWYLER DATA CENTRE SOLUTION (FO-DCS)

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


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 80

FO-DCS VS. HD-DCS



CRITERIA	HD-DC Solution	FO-DC Solution
		
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)	OM3, OM4, G.652.D (BLO)
Max. number of fibres / 1U - LCD	192	72
Max. number of fibres / 1U - MTP₁₂	1152	432
Max. number of fibres / 4U - LCD	768	288
Max. number of fibres / 4U - MTP₁₂	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 71	details from page 80

HIGH-DENSITY DATA CENTRE SOLUTION

NEW

**Datwyler's modular High Density Cabling Solution
is characterised by its port density and flexibility**

The implementation of IoT 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, our 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 fiber 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 1,152 fibres per 1U can be achieved (MTP₁₂).

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

HIGH-DENSITY DATA CENTRE SOLUTION

Patch panels and cassettes

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 MTP₁₂), 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.

HIGH-DENSITY DATA CENTRE SOLUTION

Cassettes

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.

HIGH-DENSITY DATA CENTRE SOLUTION

Cassettes

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.

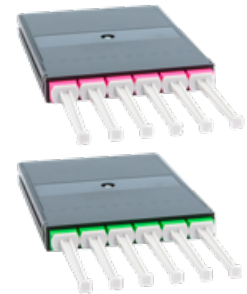


Article No.	Description	Colour	PU
473541	HD-DCS BO module, 24x LCD/PC, OM4	black	1 pc.
473545	HD-DCS BO module, 24x LCD/PC, OS2	black	1 pc.
473547	HD-DCS BO module, 24x LCD/APC, OS2	black	1 pc.

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 (MTP₁₂) on 1U can be achieved with this module type.

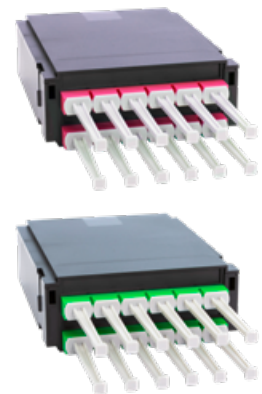


Article No.	Description	Colour	PU
473590	HD-DCS BO module, 6x MPO, OM4	black	1 pc.
473592	HD-DCS BO module, 6x MPO, OS2	black	1 pc.

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 (MTP₁₂) 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.

HIGH-DENSITY DATA CENTRE SOLUTION

Cassettes and accessories

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 (MTP₁₂) 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 patch cable management elements, detachable label plate

The patch cable management 0U comes in a set of 4 pieces.
Patch cables can be routed easily within the same rack unit of the modular panel.
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.

HIGH-DENSITY DATA CENTRE SOLUTION

Accessories

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

see page 90

HIGH-DENSITY DATA CENTRE SOLUTION

Patch and fanout cables

PATCH AND FANOUT CABLES

HD-DCS Indoor cables, MTP

12-144 fibres, OM4 or OS2

Compact, metal-free cable construction with FR/LSZH cable sheath and 12 to 144 fibres. OM4 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.

Leg separation effected with a divider housing.

Individual cables are assembled using MTP® connectors with high-performance 12-fibre Elite® ferrules (MTP₈/MTP₂₄ 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	Cable sheath colour	PU
474000	474010	HD-DCS indoor cable 1x MTP - 1x MTP, 12F OM4	heather violet	by the metre
474001	474011	HD-DCS indoor cable 2x MTP - 2x MTP, 24F OM4	heather violet	by the metre
474002	474012	HD-DCS indoor cable 4x MTP - 4x MTP, 48F OM4	heather violet	by the metre
474004	474014	HD-DCS indoor cable 8x MTP - 8x MTP, 96F OM4	heather violet	by the metre
474005	474015	HD-DCS indoor cable 12x MTP - 12x MTP, 144F OM4	heather violet	by the metre
474040	474050	HD-DCS indoor cable 1x MTP - 1x MTP, 12F OS2	yellow	by the metre
474041	474051	HD-DCS indoor cable 2x MTP - 2x MTP, 24F OS2	yellow	by the metre
474042	474052	HD-DCS indoor cable 4x MTP - 4x MTP, 48F OS2	yellow	by the metre
474044	474054	HD-DCS indoor cable 8x MTP - 8x MTP, 96F OS2	yellow	by the metre
474045	474055	HD-DCS indoor cable 12x MTP - 12x MTP, 144F OS2	yellow	by the metre

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

HD-DCS Breakout cables, MTP

12-144 fibres, OM4 or OS2

Compact, metal-free cable construction with FR/LSZH cable sheath and 12 to 144 fibres. OM4 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 (MTP₈/MTP₂₄ 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	Cable sheath colour	PU
475000	475010	HD-DCS Breakout cable 1x MTP - 1x MTP	heather violet	by the metre
475001	475011	HD-DCS Breakout cable 2x MTP - 2x MTP	heather violet	by the metre
475002	475012	HD-DCS Breakout cable 4x MTP - 4x MTP	heather violet	by the metre
475004	475014	HD-DCS Breakout cable 8x MTP - 8x MTP	heather violet	by the metre
475005	475015	HD-DCS Breakout cable 12x MTP - 12x MTP	heather violet	by the metre
475040	475050	HD-DCS Breakout cable 1x MTP - 1x MTP	yellow	by the metre
475041	475051	HD-DCS Breakout cable 2x MTP - 2x MTP	yellow	by the metre
475042	475052	HD-DCS Breakout cable 4x MTP - 4x MTP	yellow	by the metre
475044	475054	HD-DCS Breakout cable 8x MTP - 8x MTP	yellow	by the metre
475045	475055	HD-DCS Breakout cable 12x MTP - 12x MTP	yellow	by the metre

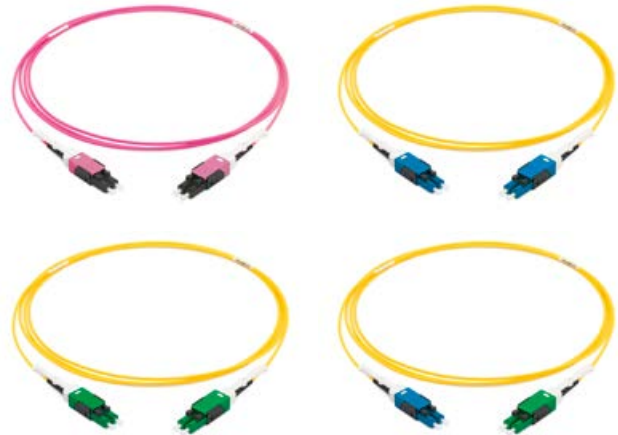
MTP® and MTP Elite® are registered brands of US Conec.

HIGH-DENSITY DATA CENTRE SOLUTION

Patch and fanout cables

HD-DCS patch cords, LCD Uniboot OM4 or 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 center 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 sheath	Type	Length in m / Article No.										
			1	2	3	4	5	6	7	8	9	10	
HD-DCS patch cord LCD/PC - LCD/PC													
G50/125 OM4	heather violet	A to B	473400	473401	473402	473403	473404	473405	473406	473407	473408	473409	
G50/125 OM4	heather violet	A to A	473420	473421	473422	473423	473424	473425	473426	473427	473428	473429	

HD-DCS patch cord LCD/PC - LCD/PC

E9/125 G.652.D (BLO)	yellow	A to B	473300	473301	473302	473303	473304	473305	473306	473307	473308	473309	
E9/125 G.652.D (BLO)	yellow	A to A	473320	473321	473322	473323	473324	473325	473326	473327	473328	473329	

HD-DCS patch cord LCD/APC - LCD/APC

E9/125 G.652.D (BLO)	yellow	A to B	473340	473341	473342	473343	473344	473345	473346	473347	473348	473349	
E9/125 G.652.D (BLO)	yellow	A to A	473360	473361	473362	473363	473364	473365	473366	473367	473368	473369	

HD-DCS patch cord LCD/PC - LCD/APC

E9/125 G.652.D (BLO)	yellow	A to B	473380	473381	473382	473383	473384	-	-	-	-	-	
E9/125 G.652.D (BLO)	yellow	A to A	473390	473391	473392	473393	473394	-	-	-	-	-	

HD-DCS patch cords, MTP® OM4 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 sheath	Connectivity	Length in m / Article No.					
			1	2	3	4	5	
HD-DCS patch cord MTP - MTP								
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	
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.

HIGH-DENSITY DATA CENTRE SOLUTION

Patch and fanout cables

HD-DCS fanout cables, MTP®-LCD

**8 fibres, OM4 or OS2
for splitting 100G into 4x 25G or 40G into 4x 10G**

Thin, very flexible fibre-optic fanout cables (round, Ø 2.0 mm) with 8 fibres.
Low fire load due to halogen-free flame-retardant LSZH sheath.
Available in 2.5 m standard length (other lengths on request).
Standard connectivity methods: A or C.
Sticker labelling at both cable ends.
Thin divider housing for single-cable separation ("legs").
The legs with LCD Uniboot (LCDU) plugs are numbered (1-4),
can be ordered graded in length or of equal length.
Project-specific assemblies 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).

Used to split all well-known multimode and single-mode QSFP applications
such as SR4, PSM4, PLR4 and FCp into four duplex channels;
the connectivity splits one 4-channel parallel optic link into four duplex links
(e.g. 100G to 4x 25G or 40G to 4x 10G).



Article No. type A	Article No. type C	Description	Cable sheath colour	PU
4473750	473755	HD-DCS fanout cable 1x MTP - 4x LCDU	heather violet	1 pc.
473751	473756	HD-DCS fanout cable 1x MTP - 4x LCDU	heather violet	1 pc.
473770	473775	HD-DCS fanout cable 1x MTP - 4x LCDU	yellow	1 pc.
473771	473776	HD-DCS fanout cable 1x MTP - 4x LCDU	yellow	1 pc.

MTP® is a registered brand of US Conec.

HD-DCS fanout cables, MTP®-LCD

**12 fibres, OM4 or OS2
for connecting active components**

Thin, very flexible fibre-optic fanout cable (round, Ø 2.0 mm) with 12 fibres.
Low fire load due to halogen-free flame-retardant LSZH sheath.
Available in 2.5 m standard length (other lengths on request).
Standard connectivity methods: A or C.
Sticker labelling at both cable ends.
Thin divider housing for single-cable separation ("legs").
The legs with LCD Uniboot (LCDU) plugs are numbered (1-6),
can be ordered graded in length or of equal length.
Project-specific assemblies 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).

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	Cable sheath colour	PU
473700	473705	HD-DCS fanout cable 1x MTP - 6x LCDU	heather violet	1 pc.
473701	473706	HD-DCS fanout cable 1x MTP - 6x LCDU	heather violet	1 pc.
473720	473725	HD-DCS fanout cable 1x MTP - 6x LCDU	yellow	1 pc.
473721	473726	HD-DCS fanout cable 1x MTP - 6x LCDU	yellow	1 pc.

MTP® is a registered brand of US Conec.

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 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.

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.

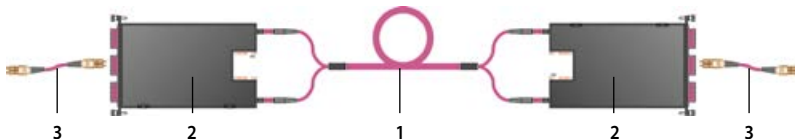
Optical values of the Datwyler Data Centre Solution:

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.

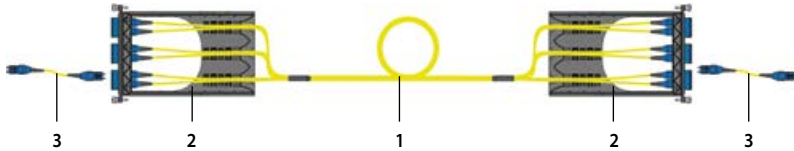
Part	Level	Description	Remarks
1	High-performance	Mini breakout cable MTP-MTP, type A or type C	12, 24, 48, 72, 96 or 144 fibres
2	High-performance	Plug-in module, 3U/7HP, 24F, 2x MTP on 6x LCQ	24 fibres
3	High-performance	Patch cable LCD-LCD (Uniboot)	Polarity: A to A or A to B

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.

DATWYLER DATA CENTRE SOLUTION

Module-to-module configuration (without MTP)

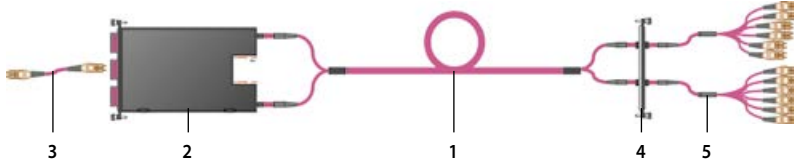


Two FO-DCS splice plug-in modules are interconnected by a thin FO Universal cable with LCD connectors.
For all known Duplex applications up to 25G Ethernet or 16G Fiber Channel.

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 LCO	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

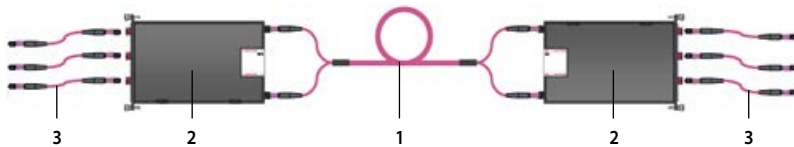


One FO-DCS plug-in module is connected to two FO-DCS fanout cables (MTP® on LCD Uniboot) by a thin FO-DCS mini breakout cable MTP-MTP for a direct link between the active ports (e.g. ports of a SAN switch). For all well-known Duplex applications such as 10G and 25G Ethernet or 16G and 32G Fiber Channel.

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	High-performance	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

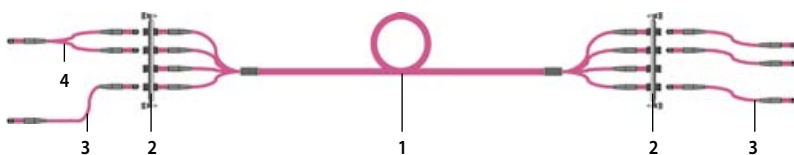


Two FO-DCS converter plug-in modules are interconnected by a FO-DCS mini breakout cable MTP-MTP.
For three 40G, NG100G, PSM4, PLR4 or 64GFC links.

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	High-performance	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.

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
470540	FO-DCS modular subrack, 19"/3U, 84HP (without excess cable length tray)	Aluminium, anodised	1 pc.
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.

DATWYLER DATA CENTRE SOLUTION

Subracks and patch panels

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.

DATWYLER DATA CENTRE SOLUTION

Cassettes and front panels

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 or anodised aluminium, 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.	Article No.	Description	PU
with black PC front panel	with anodised Alu front panel		
571500	571600	FO-DCS 3U/7HP plug-in module, 2x MTP on 6x LCQ, OM3	1 pc.
571501	571601	FO-DCS 3U/7HP plug-in module, 2x MTP on 6x LCQ, OM4	1 pc.
571502	571602	FO-DCS 3U/7HP plug-in module, 2x MTP on 6x LCQ/PC, OS2 (G.652.D)	1 pc.
571503	571603	FO-DCS 3U/7HP plug-in module 2x MTP on 6x LCQ/APC, OS2 (G.652.D)	1 pc.
571506	571606	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD, OM3	1 pc.
571507	571607	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD, OM4	1 pc.
571508	571608	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD/PC, OS2 (G.652.D)	1 pc.
571509	571609	FO-DCS 3U/7HP plug-in module, 1x MTP on 6x LCD/APC, OS2 (G.652.D)	1 pc.
571505	571605	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.	Article No.	Description	PU
with 6x LCD	with 6x LCQ		
571576	571570	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, turquoise	1 pc.
571577	571571	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, heather violet	1 pc.
571578	571572	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, blue	1 pc.
571579	571573	FO-DCS BO plug-in module, 3U/7HP, 6x LCD or 6x LCQ, green	1 pc.
with 6x LSH-C			
571575		FO-DCS BO plug-in module, 3U/7HP, 6x LSH-C/APC, green	1 pc.
571599		Labelling sheet A4, perforated (blank)	10 pcs.
with 6x MTP	with 6x MTPD		
571590	571580	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, turquoise	1 pc.
571591	571581	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, heather violet	1 pc.
571592	571582	FO-DCS BO plug-in module, 3U/7HP, 6x MTP or 6x MTPD, black	1 pc.
571593	571583	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.

DATWYLER DATA CENTRE SOLUTION

Cassettes and front panels

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 MTP₈ Type A / 6x LCQ (speed converter).
2x MTP₁₂ 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.	Article No.	Description	PU
with black PC front panel			
with anodised Alu front panel			
571530	571630	FO-DCS 3U/7HP splice plug-in module, 6x LCQ, OM3	1 pc.
571531	571631	FO-DCS 3U/7HP splice plug-in module, 6x LCQ, OM4	1 pc.
571532	571632	FO-DCS 3U/7HP splice plug-in module, 6x LCQ/PC, OS2 (G.652.D)	1 pc.
571533	571633	FO-DCS 3U/7HP splice plug-in module, 6x LCQ/APC, OS2 (G.652.D)	1 pc.
<hr/>			
571536	571636	FO-DCS 3U/7HP splice plug-in module, 6x LCD, OM3	1 pc.
571537	571637	FO-DCS 3U/7HP splice plug-in module, 6x LCD, OM4	1 pc.
571538	571638	FO-DCS 3U/7HP splice plug-in module, 6x LCD/PC, OS2 (G.652.D)	1 pc.
571539	571639	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) or aluminium front panel with 2, 4 or 8 MTP adapters (with dust caps).
Black PC front panels provide labelling strips on both sides.



Article No.	Article No.	Description	PU
black PC			
anodised alu			
571550		FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A turquoise
571551		FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A magenta
571552		FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A black
571556		FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A turquoise
571557		FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A magenta
571558	470550	FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A black
571560		FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A turquoise
571561		FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A magenta
571562	470551	FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A black
571599		Labelling sheet A4, perforated (blank)	10 pcs.

MTP® is a registered brand name of US Conec.

DATWYLER DATA CENTRE SOLUTION

Patch and fanout cables

PATCH AND FANOUT CABLES

FO-DC Indoor cable MTP®, 12-144 fibres

Sturdy, metal-free indoor cables - provide enhanced crush resistance and rodent protection.
 Compact, metal-free cable construction with FR/LSOH cable sheath.
 12 up to 144 fibres, OM4 or OS2 (G.652.D BLO).
 For Duplex and parallel optic signals.
 Sticker labelling at both cable ends.
 Leg lengths defined on the basis of a specific project (maximum: 4.0 m),
 divider housing for single-cable separation ("legs"), come in protective sleeves.
 Assembled using MTP₁₂ connectors (12-fibre Elite® ferrules) MTP₈/MTP₂₄ on request.
 Connectivity method: Type A or Type C (other versions on request).
 Comes with test reports on all MTP connectors.



Article No. type A*	Article No. type C*	Description	Cable sheath colour	PU
571751	571756	FO-DC indoor cable MTP-MTP, 12F OM4	heather violet	by the metre
571752	571757	FO-DC indoor cable MTP-MTP, 2x 12F OM4	heather violet	by the metre
571753	571758	FO-DC indoor cable MTP-MTP, 4x 12F OM4	heather violet	by the metre
571754	571759	FO-DC indoor cable MTP-MTP, 8x 12F OM4	heather violet	by the metre
571755	571760	FO-DC indoor cable MTP-MTP, 12x 12F OM4	heather violet	by the metre
571761	571766	FO-DC indoor cable MTP-MTP, 12F OS2 (G.652.D BLO)	yellow	by the metre
571762	571767	FO-DC indoor cable MTP-MTP, 2x 12F OS2 (G.652.D BLO)	yellow	by the metre
571763	571768	FO-DC indoor cable MTP-MTP, 4x 12F OS2 (G.652.D BLO)	yellow	by the metre
571764	571769	FO-DC indoor cable MTP-MTP, 8x 12F OS2 (G.652.D BLO)	yellow	by the metre
571765	571770	FO-DC indoor cable MTP-MTP, 12x 12F OS2 (G.652.D BLO)	yellow	by the metre

* Article Nos. = Euroclass D_{ca}. Also available as C_{ca} and B2_{ca}. Other versions available on request.

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

FO-DC universal cable MTP®, 12-48 fibres

Sturdy, metal-free cables - provide enhanced crush resistance and rodent protection.
 Compact, metal-free cable construction with FR/LSOH cable sheath.
 12 up to 48 fibres, OM3, OM4 or OS2.
 For duplex and parallel optic signals.
 Sticker labelling at both cable ends.
 Leg lengths defined on the basis of a specific project (maximum: 4.0 m),
 divider housing for single-cable separation ("legs"), come in protective sleeves.
 Assembled using MTP connectors (12-fibre Elite® ferrules).
 Polarisation mode: type A or C (other types on request).
 Comes with test reports on all MTP connectors.



Article No. type A*	Article No. type C*	Description	Cable sheath colour	PU
570641	570644	FO-DC universal cable MTP-MTP, 12F, OM3	turquoise	by the metre
570651	570654	FO-DC universal cable MTP-MTP, 12F, OM4	heather violet	by the metre
570661	570664	FO-DC universal cable MTP-MTP, 12F, OS2 (G.652.D)	yellow	by the metre
570642	570645	FO-DC universal cable MTP-MTP, 2x 12F, OM3	turquoise	by the metre
570652	570655	FO-DC universal cable MTP-MTP, 2x 12F, OM4	heather violet	by the metre
570662	570665	FO-DC universal cable MTP-MTP, 2x 12F, OS2 (G.652.D)	yellow	by the metre
570643	570646	FO-DC universal cable MTP-MTP, 4x 12F, OM3	turquoise	by the metre
570653	570656	FO-DC universal cable MTP-MTP, 4x 12F, OM4	heather violet	by the metre
570663	570666	FO-DC universal cable MTP-MTP, 4x 12F, OS2 (G.652.D)	yellow	by the metre

* 12F = Euroclass D_{ca}, 2x 12F and 4x 12F = Euroclass E_{ca}. Other versions available on request.

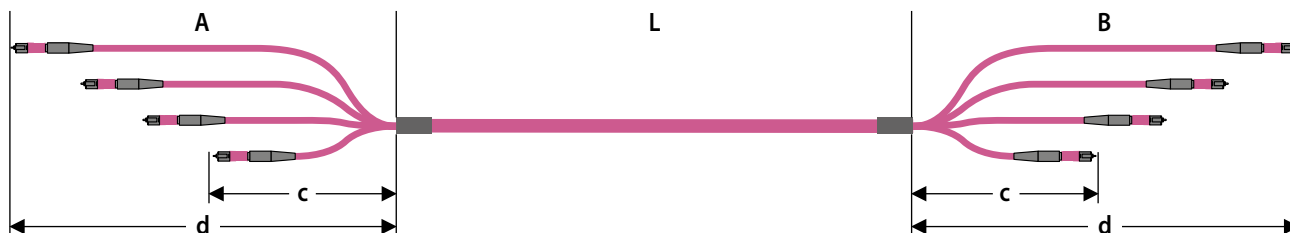
MTP® and MTP Elite® are registered brand names of US Conec.

DATWYLER DATA CENTRE SOLUTION

Patch and fanout cables

Pre-assembled fibre optic cable variants

Datwyler also supplies its ready-to-install FO cables in pre-assembled variants such as MTP®-on-LCD, LCD-on-LCD, LCD-on-SCD or tailor-made versions for all projects.



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

Length of shortest leg:
 Length of longest leg:
 Maximum leg length:

0.45 m minimum for 1U panel,
 0.75 m minimum for 4U subrack
 $d = c + n \times 8 \text{ cm}$
 4.0 m

FO-DCS fanout cables MTP®-LCD, 8 fibres

For the conversion of 100G to 4x 25G or 40G to 4x 10G

Assembled using 1 MTP connector and 4 LCD Uniboot connectors.
 8 fibres, OM4 or OS2.

For the quick and space-saving connection of active devices
 such as switches, servers, storage, etc.

Legs: can be ordered graded in length or of equal length.

Project-specific assemblies are available on request.

Comes with test reports on all connectors.



Article No. type A	Article No. type C	Description	Sheath colour	Length [m]
571243	571253	FO-DCS fanout cable MTP/f-LCDU, 8F, OM4, graded	heather violet	2.5
571244	571254	FO-DCS fanout cable MTP/f-LCDU, 8F, OM4, equal length	heather violet	2.5
571245	571255	FO-DCS fanout cable MTP/f-LCDU, 8F, OS2 (G.652.D), graded	yellow	2.5
571246	571256	FO-DCS fanout cable MTP/f-LCDU, 8F, OS2 (G.652.D), equal length	yellow	2.5

FO-DCS fanout cable MTP®-LCD, 12 fibres

Assembled using 1 MTP connector and 6 LCD Uniboot connectors.
 12 fibres, OM3, OM4 or OS2.

For the quick and space-saving connection of active devices such as
 switches, servers, storage, etc.

Legs: can be ordered graded in length or of equal length.

Project-specific assemblies are available on request.

Comes with test reports on all connectors.



Article No. type A	Article No. type C	Description	Sheath colour	Length [m]
571201	571211	FO-DCS fanout cable MTP/f-LCDU, 12F, OM3, graded	turquoise	2.5
571202	571212	FO-DCS fanout cable MTP/f-LCDU, 12F, OM3, equal length	turquoise	2.5
571203	571213	FO-DCS fanout cable MTP/f-LCDU, 12F, OM4, graded	heather violet	2.5
571204	571214	FO-DCS fanout cable MTP/f-LCDU, 12F, OM4, equal length	heather violet	2.5
571205	571215	FO-DCS fanout cable MTP/f-LCDU, 12F, OS2 (G.652.D), graded	yellow	2.5
571206	571216	FO-DCS fanout cable MTP/f-LCDU, 12F, OS2 (G.652.D), equal length	yellow	2.5

MTP® is a registered brand name of US Conec.

DATWYLER DATA CENTRE SOLUTION

Patch and fanout cables

FO-DCS patch cables MTP-MTP®, 12 fibres

Thin and flexible patch cable (round, Ø 3.0 mm) with 12 fibres, OM3 or OM4.
 Low fire load due to its halogen-free flame-retardant LSZH sheath.
 Available in standard lengths up to 5 m (other lengths on request).
 Sticker labelling at both cable ends.
 MTP connectors (female) at both cable ends.
 Polarisation modes: A, B or C.
 Comes with test reports on all connectors.



Article No. type A	Article No. type B	Article No. type C	Description	Sheath colour	Length [m]
570901	570911	570921	FO-DCS patch cable MTP, 12F, OM3	turquoise	1.0
570931	570941	570951	FO-DCS patch cable MTP, 12F, OM4	heather violet	1.0
570902	570912	570922	FO-DCS patch cable MTP, 12F, OM3	turquoise	2.0
570932	570942	570952	FO-DCS patch cable MTP, 12F, OM4	heather violet	2.0
570903	570913	570923	FO-DCS patch cable MTP, 12F, OM3	turquoise	3.0
570933	570943	570953	FO-DCS patch cable MTP, 12F, OM4	heather violet	3.0
571301	571311	571321	FO-DCS patch cable MTP, 12F, OS2	yellow	1.0
571302	571312	571322	FO-DCS patch cable MTP, 12F, OS2	yellow	2.0
571303	571313	571323	FO-DCS patch cable MTP, 12F, OS2	yellow	3.0

FO-DCS Y patch cables MTP-MTP®, 24 fibres

Article No. type A	Article No. type B	Article No. type C	Description	Sheath colour	Length [m]
570961	570971	570981	FO-DCS Y patch cable MTP24 - 2x MTP12, 24F, OM4	heather violet	1.0
570962	570972	570982	FO-DCS Y patch cable MTP24 - 2x MTP12, 24F, OM4	heather violet	2.0
570963	570973	570983	FO-DCS Y patch cable MTP24 - 2x MTP12, 24F, OM4	heather violet	3.0
571331	571341	571351	FO-DCS Y patch cable MTP24 - 3x MTP8, 24F, OM4	heather violet	1.0
571332	571342	571352	FO-DCS Y patch cable MTP24 - 3x MTP8, 24F, OM4	heather violet	2.0
571333	571343	571353	FO-DCS Y patch cable MTP24 - 3x MTP8, 24F, OM4	heather violet	3.0

MTP® is a registered brand name of US Conec.

FO-DCS patch cable LCD-LCD, 2 fibres

Compact cable construction (round, Ø 2.2 mm) with FR/LSZH cable sheath and 2 fibres, OM3, OM4 or OS2, standard: G.652.D (G.657.A1 or G.657.A2 on request).
 Available in standard lengths up to 10 m (other lengths on request).
 Sticker labelling at both cable ends.
 LCD Uniboot connectors at both cable ends.
 Straight polarity (A to A) or cross polarity (A to B).
 Comes with test reports on all connectors.



Description	Colour	Type	Length [m] / Article No.										
			1	2	3	4	5	6	7	8	9	10	
FO-DCS patch cable LCDU, PC, 2F, OM3	turquoise	A to A	570801	570802	570803	570804	570805	570806	570807	570808	570809	570810	
FO-DCS patch cable LCDU, PC, 2F, OM3	turquoise	A to B	570821	570822	570823	570824	570825	570826	570827	570828	570829	570830	
FO-DCS patch cable LCDU, PC, 2F, OM4	violet	A to A	570841	570842	570843	570844	570845	570846	570847	570848	570849	570850	
FO-DCS patch cable LCDU, PC, 2F, OM4	violet	A to B	570861	570862	570863	570864	570865	570866	570867	570868	570869	570870	
FO-DCS patch cable LCDU, PC, 2F, OS2	yellow	A to A	570721	570722	570723	570724	570725	570726	570727	570728	570729	570730	
FO-DCS patch cable LCDU, PC, 2F, OS2	yellow	A to B	570741	570742	570743	570744	570745	570746	570747	570748	570749	570750	
FO-DCS patch cable LCDU, APC, 2F, OS2	yellow	A to A	570761	570762	570763	570764	570765	570766	570767	570768	570769	570770	
FO-DCS patch cable LCDU, APC, 2F, OS2	yellow	A to B	570781	570782	570783	570784	570785	570786	570787	570788	570789	570790	
FO-DCS patch cable LCDU, APC/PC, 2F, OS2	yellow	A to A	570701	570702	570703	570704	570705	570706	570707	570708	570709	570710	
FO-DCS patch cable LCDU, APC/PC, 2F, OS2	yellow	A to B	570711	570712	570713	570714	570715	570716	570717	570718	570719	570720	

DATWYLER DATA CENTRE SOLUTION

Copper cassettes / Cleaning tools

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



Plug-in module for 6 RJ45 Keystone modules

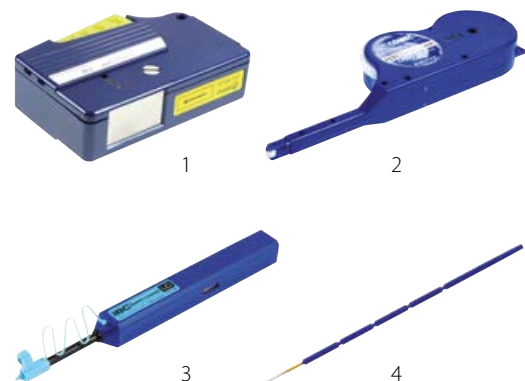
Article No.	Description	Material/colour	PU
440046	Plug-in module for 6x RJ45 module Keystone (without modules)	stainless steel, blank	1 pc.
440055	Plug-in module for 6x RJ45 module Keystone (without modules)	black	1 pc.

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.

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		Wall Mount Rack
	Standard	Premium	Standard	Premium	Premium
Front	Perforated door		Safety glass door		Safety glass door
Back	Perforated door		Sheet steel panel		Sheet steel panel
Locktype	1 point	3 points	1 point	3 points	1 point
Max. load capacity	1000 kg	1500 kg	500 kg	800 kg	30 to 40 kg
Height	42 or 48 U		21, 27, 33, 42 or 48 U		6, 9, 12, 15 or 18 U

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



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

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.

Features

Size:	Height: 42U and 48U Width: 600 mm 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:	RAL 9005 (black), RAL7035 (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 x 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 x 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 97 or visit www.cabling.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, RAL 9005
195001	Server Rack Premium DSRP-42-60/120	1500	149	42U, 1978 x 600 x 1200 mm	black, RAL 9005
195264	Server Rack Premium DSRP-42-80/80	1500	134	42U, 1978 x 800 x 800 mm	black, RAL 9005
195115	Server Rack Premium DSRP-42-80/100	1500	157	42U, 1978 x 600 x 1000 mm	black, RAL 9005
195116	Server Rack Premium DSRP-42-80/120	1500	175	42U, 1978 x 800 x 1200 mm	black, RAL 9005
195002	Server Rack Premium DSRP-48-60/100	1500	148	48U, 2245 x 600 x 1000 mm	black, RAL 9005
195003	Server Rack Premium DSRP-48-60/120	1500	178	48U, 2245 x 600 x 1200 mm	black, RAL 9005
195117	Server Rack Premium DSRP-48-80/100	1500	173	48U, 2245 x 800 x 1000 mm	black, RAL 9005
195118	Server Rack Premium DSRP-48-80/120	1500	208	48U, 2245 x 800 x 1200 mm	black, RAL 9005
195111	Server Rack Premium DSRP-42-60/100	1500	135	42U, 1978 x 600 x 1000 mm	light grey, RAL 7035
195112	Server Rack Premium DSRP-42-60/120	1500	149	42U, 1978 x 600 x 1200 mm	light grey, RAL 7035
195265	Server Rack Premium DSRP-42-80/80	1500	134	42U, 1978 x 800 x 800 mm	light grey, RAL 7035
195119	Server Rack Premium DSRP-42-80/100	1500	157	42U, 1978 x 600 x 1000 mm	light grey, RAL 7035
195120	Server Rack Premium DSRP-42-80/120	1500	175	42U, 1978 x 800 x 1200 mm	light grey, RAL 7035
195113	Server Rack Premium DSRP-48-60/100	1500	148	48U, 2245 x 600 x 1000 mm	light grey, RAL 7035
195114	Server Rack Premium DSRP-48-60/120	1500	178	48U, 2245 x 600 x 1200 mm	light grey, RAL 7035
195121	Server Rack Premium DSRP-48-80/100	1500	173	48U, 2245 x 800 x 1000 mm	light grey, RAL 7035
195122	Server Rack Premium DSRP-48-80/120	1500	208	48U, 2245 x 800 x 1200 mm	light grey, RAL 7035

More dimensions 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 unrivalled cost-performance ratio

Features

Size:	Height: 42U 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:	RAL 9005 (black) or RAL 7035 (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 97 or visit www.cabling.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, RAL 9005
195424	Server Rack Standard DSRS-42-60/120	1000	139	42U, 2000 x 600 x 1200 mm	black, RAL 9005
195421	Server Rack Standard DSRS-42-80/100	1000	133	42U, 2000 x 800 x 1000 mm	black, RAL 9005
195425	Server Rack Standard DSRS-42-80/120	1000	158	42U, 2000 x 800 x 1200 mm	black, RAL 9005
195422	Server Rack Standard DSRS-42-60/100	1000	114	42U, 2000 x 600 x 1000 mm	light grey, RAL 7035
195426	Server Rack Standard DSRS-42-60/120	1000	139	42U, 2000 x 600 x 1200 mm	light grey, RAL 7035
195423	Server Rack Standard DSRS-42-80/100	1000	133	42U, 2000 x 800 x 1000 mm	light grey, RAL 7035
195427	Server Rack Standard DSRS-42-80/120	1000	158	42U, 2000 x 800 x 1200 mm	light grey, RAL 7035

More dimensions available on request

NETWORK RACKS

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

with glass front door & steel rear door
RAL 7035 and RAL 9005

Application

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

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 (42/48U), 400 kg (27U), 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:	IP40 (IP54 on request)
Colours:	RAL 9005 (black) or RAL 7035 (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 97 or visit www.cabbling.datwyler.com)



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

Article No.	Description	Load kg	Weight kg	Dimensions [HxWxD]	Colour
195012	Network Rack Premium DNRP-27-80/100	400	124	27U, 1311 x 800 x 1000 mm	black, RAL 9005
195008	Network Rack Premium DNRP-42-80/100	800	157	42U, 1978 x 800 x 1000 mm	black, RAL 9005
195009	Network Rack Premium DNRP-42-80/120	800	175	42U, 1978 x 800 x 1200 mm	black, RAL 9005
195010	Network Rack Premium DNRP-48-80/100	800	173	48U, 2245 x 800 x 1000 mm	black, RAL 9005
195011	Network Rack Premium DNRP-48-80/120	800	208	48U, 2245 x 800 x 1200 mm	black, RAL 9005
195020	Network Rack Premium DNRP-27-80/80	400	100	27U, 1311 x 800 x 800 mm	light grey, RAL 7035
195021	Network Rack Premium DNRP-27-80/100	400	124	27U, 1311 x 800 x 1000 mm	light grey, RAL 7035
195014	Network Rack Premium DNRP-42-80/80	800	134	42U, 1978 x 800 x 800 mm	light grey, RAL 7035
195015	Network Rack Premium DNRP-42-80/100	800	157	42U, 1978 x 800 x 1000 mm	light grey, RAL 7035
195016	Network Rack Premium DNRP-42-80/120	800	175	42U, 1978 x 800 x 1200 mm	light grey, RAL 7035
195017	Network Rack Premium DNRP-48-80/80	800	147	48U, 2245 x 800 x 800 mm	light grey, RAL 7035
195018	Network Rack Premium DNRP-48-80/100	800	173	48U, 2245 x 800 x 1000 mm	light grey, RAL 7035
195019	Network Rack Premium DNRP-48-80/120	800	208	48U, 2245 x 800 x 1200 mm	light grey, RAL 7035

More dimensions available on request

NETWORK RACKS

Network Racks Standard DNRS 19"/ 21U, 27U, 33U, 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, 33U, 42U and 48U Width: 600 or 800 mm Depth: 600 - 1200 mm
Construction:	Welded sheet steel frame (1.5 mm)
Load capacities:	600 kg (48U), 500 kg (42U), 300 kg (33/27/21U), 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:	RAL 9005 (black) or RAL 7035 (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 97 or visit www.cabling.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	300	52	21U, 1045 x 600 x 600 mm	black, RAL 9005
195431	Network Rack Standard DNRS-21-60/80	300	61	21U, 1045 x 600 x 800 mm	black, RAL 9005
195432	Network Rack Standard DNRS-21-80/80	300	72	21U, 1045 x 800 x 800 mm	black, RAL 9005
195444	Network Rack Standard DNRS-27-60/60	300	61	27U, 1300 x 600 x 600 mm	black, RAL 9005
195445	Network Rack Standard DNRS-27-60/80	300	70	27U, 1300 x 600 x 800 mm	black, RAL 9005
195446	Network Rack Standard DNRS-27-80/80	300	83	27U, 1300 x 800 x 800 mm	black, RAL 9005
195434	Network Rack Standard DNRS-33-60/60	300	68	33U, 1700 x 600 x 600 mm	black, RAL 9005
195430	Network Rack Standard DNRS-42-60/60	500	83	42U, 2000 x 600 x 600 mm	black, RAL 9005
195428	Network Rack Standard DNRS-42-60/80	500	94	42U, 2000 x 600 x 800 mm	black, RAL 9005
195429	Network Rack Standard DNRS-42-80/80	500	113	42U, 2000 x 800 x 800 mm	black, RAL 9005
195454	Network Rack Standard DNRS-42-80/100	500	133	42U, 2000 x 800 x 1000 mm	black, RAL 9005
195455	Network Rack Standard DNRS-42-80/120	500	158	42U, 2000 x 800 x 1200 mm	black, RAL 9005
195435	Network Rack Standard DNRS-48-60/80	600	112	48U, 2200 x 600 x 800 mm	black, RAL 9005
195436	Network Rack Standard DNRS-48-80/80	600	134	48U, 2200 x 800 x 800 mm	black, RAL 9005
195442	Network Rack Standard DNRS-21-60/60	300	52	21U, 1045 x 600 x 600 mm	light grey, RAL 7035
195440	Network Rack Standard DNRS-21-60/80	300	61	21U, 1045 x 600 x 800 mm	light grey, RAL 7035
195441	Network Rack Standard DNRS-21-80/80	300	72	21U, 1045 x 800 x 800 mm	light grey, RAL 7035
195447	Network Rack Standard DNRS-27-60/60	300	61	27U, 1300 x 600 x 600 mm	light grey, RAL 7035
195448	Network Rack Standard DNRS-27-60/80	300	70	27U, 1300 x 600 x 800 mm	light grey, RAL 7035
195449	Network Rack Standard DNRS-27-80/80	300	83	27U, 1300 x 800 x 800 mm	light grey, RAL 7035
195443	Network Rack Standard DNRS-33-60/60	300	68	33U, 1700 x 600 x 600 mm	light grey, RAL 7035
195439	Network Rack Standard DNRS-42-60/60	500	83	42U, 2000 x 600 x 600 mm	light grey, RAL 7035
195437	Network Rack Standard DNRS-42-60/80	500	94	42U, 2000 x 600 x 800 mm	light grey, RAL 7035
195438	Network Rack Standard DNRS-42-80/80	500	113	42U, 2000 x 800 x 800 mm	light grey, RAL 7035
195452	Network Rack Standard DNRS-42-80/100	500	133	42U, 2000 x 800 x 1000 mm	light grey, RAL 7035
195453	Network Rack Standard DNRS-42-80/120	500	158	42U, 2000 x 800 x 1200 mm	light grey, RAL 7035
195450	Network Rack Standard DNRS-48-60/80	600	112	48U, 2200 x 600 x 800 mm	light grey, RAL 7035
195451	Network Rack Standard DNRS-48-80/80	600	134	48U, 2200 x 800 x 800 mm	light grey, RAL 7035

More dimensions available on request

For higher load capacity and cable management requirements: see the "Premium" racks on our website.

Subject to technical modification.

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.

WALL-MOUNTED RACKS

Wall-Mount Racks Premium DWMR 19"/ 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, 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:	RAL 7035 (light grey) or RAL 9005 (black)
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 x 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







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-6-60/40	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, 10 fingers, removeable cover, depth: 112 mm, incl. mounting kit	all racks		
	195041	1U		black	1
	195042	2U		black	1
	195043	3U		black	1
		Horizontal cable management holders			
	195204	depth = 600 mm	DNRS/DSRS	black	1
	195205	depth = 800 mm	all racks	black	1
		19" cable management panel, 5 plastic rings, 4 holes for cable entry	all racks		
	195220	1U, 40 x 50 mm rings		black	1
	195097	1U, 40 x 80 mm rings		black	1
	195098	2U, 80 x 60 mm rings		black	1
	195221	2U, 80 x 80 mm rings		black	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	1
	418200	Management panel 19"/1U for 5 support brackets (delivery without brackets)		stainless steel	1
	1411480	Support bracket, depth: 60 mm plastic		black	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	1 set
		Vertical cable manager with plastic duct	800 mm		
	195235	15U, 80 x 60 mm	wide DNRS	black	1
	195237	33U, 80 x 60 mm		black	1
	195239	21U, 80 x 60 mm		black	1
	195241	27U, 80 x 60 mm		black	1
	195243	42U, 80 x 60 mm		black	1
		Holder for vertical cable manager	800 mm		
	195236	for 15U, 80 mm (Article No. 195235)	wide DNRS	black	2
	195238	for 33U, 80 mm (Article No. 195237)		black	2
	195240	for 21U, 80 mm (Article No. 195239)		black	2
	195242	for 27U, 80 mm (Article No. 195241)		black	2
	195244	for 42U, 80 mm (Article No. 195243)		black	2
	195313	C-Rail 1145 mm, with mounting materials	all racks		1 set
	195309	C-Rail 945 mm, with mounting materials			1 set
	195307	C-Rail 745 mm, with mounting materials			1 set
	195308	Cable clamp rail 745 mm, for rack depth 800 mm	all racks		1
	on request	Cable clamp rail for Racks rack depth 1000 mm	all racks		1
	on request	Cable clamp rail for Racks rack depth 1200 mm	all racks		1

ACCESSORIES - STRUCTURE

Plinths	Article No.	Description	Suitable for	Colour	PU
		Plinth corner front panel set			
	19554000ZY	width: 300 mm	all racks	black	1 set
	19554100ZY	width: 400 mm		black	1 set
	19554200ZY	width: 600 mm		black	1 set
	19554300ZY	width: 800 mm		black	1 set
		Plinth side panel set closed			
	19554400ZY	width: 600 mm	all racks	black	1 set
	19554500ZY	width: 800 mm		black	1 set
	19554600ZY	width: 1000 mm		black	1 set
	19554700ZY	width: 1200 mm		black	1 set
		Plinth corner front panel set			
	19554800ZY	width: 300 mm	all racks	light grey	1 set
	19554900ZY	width: 400 mm		light grey	1 set
	19555000ZY	width: 600 mm		light grey	1 set
	19555100ZY	width: 800 mm		light grey	1 set
		Plinth side panel set closed			
	19555200ZY	width: 600 mm	all racks	light grey	1 set
	19555300ZY	width: 800 mm		light grey	1 set
	19555400ZY	width: 1000 mm		light grey	1 set
	19555500ZY	width: 1200 mm		light grey	1 set
	19555600ZY	Filter set for plinth panels	all racks	black	1 set
	19555700ZY	Filter set for plinth panels	all racks	light grey	1 set
	19555800ZY	Adjustable feet set for plinth, set 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	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		
	195061	1U		black	5
	195065	1U		light grey	5
	195062	2U		black	5
	195066	2U		light grey	5
	195063	3U		black	5
	195067	3U		light grey	5
	195064	5U		black	5
195068	5U		light grey	5	

ACCESSORIES - STRUCTURE




Panels & Plates	Article No.	Description	Suitable for	Colour	PU
		19" blank plate set for covering unused height units in the racks, tool-less (with 1/4-turn fastener)	all racks		
	195184	1U		black	5 pcs.
	195185	2U		black	5 pcs.
	195186	3U		black	5 pcs.
	195187	1U		light grey	5 pcs.
	195188	2U		light grey	5 pcs.
	195189	3U		light grey	5 pcs.
	195230	19" vented panel, with brush, for front to rear cabling, minimizes by-pass airflow through the brush; sheet steel, powder coated, screwable; delivery without mounting kit	all racks	black	1
<hr/>					
Shelves	Article No.	Description	Suitable for	Colour	PU
		19" shelves, 20 kg load capacity per shelf quick fastening with two brackets	all racks		
	195148	1U, 250 mm depth		light grey	1 pc.
	195161	1U, 350 mm depth		light grey	1 pc.
	195162	1U, 450 mm depth		light grey	1 pc.
	195163	1U, 550 mm depth		light grey	1 pc.
	195164	1U, 650 mm depth		light grey	1 pc.
	195165	1U, 750 mm depth		light grey	1 pc.
	195147	1U, 250 mm depth		black	1 pc.
	195082	1U, 350 mm depth		black	1 pc.
	195083	1U, 450 mm depth		black	1 pc.
	195084	1U, 550 mm depth		black	1 pc.
	195085	1U, 650 mm depth		black	1 pc.
	195086	1U, 750 mm depth		black	1 pc.
			19" telescopic shelves, 60 kg load capacity per shelf, incl. telescopic slides	all racks	
195166		2U, 450 mm depth		light grey	1 pc.
195167		2U, 550 mm depth		light grey	1 pc.
195168		2U, 650 mm depth		light grey	1 pc.
195087		2U, 450 mm depth		black	1 pc.
195088		2U, 550 mm depth		black	1 pc.
195089		2U, 650 mm depth		black	1 pc.
		19" high load shelf set, 100 kg maximum load, with 1 high load shelf, 4 mounting brackets, screws and nuts	all racks		
	195173	1U shelf, high load, 450 mm, mounting distance: 113-463 mm		black	1 set
	195174	1U shelf, high load, 550 mm, mounting distance: 213-563 mm		black	1 set
	195175	1U shelf, high load, 650 mm, mounting distance: 313-663 mm		black	1 set
		19" telescopic high load shelf set, 80 kg maximum load, completely assembled, incl. telescopic slides, without screws/nuts	all racks		
	195179	1U shelf, telescopic, high load, 450 mm, mounting distance: 296-507 mm, depth: 471 mm		black	1 set
	195174	1U shelf, telescopic, high load, 550 mm, mounting distance: 406-607 mm, depth: 571 mm		black	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

IT RACKS AND ACCESSORIES

ACCESSORIES - STRUCTURE

Various	Article No.	Description	Suitable for	PU
	195090	Castor for free-standing racks, 1 pc., 50 kg load capacity	all racks	1
	195091	Swivel braked castor for free-standing racks, 1 pc., 50 kg load capacity	all racks	1
	195093	Rack baying kit for baying 2 racks with side panels together	DSRS/DSRP/DNRP	1 set
	401261	Mounting kit 50 screws Torx M6, nuts and washers	all racks	1 set


ACCESSORIES - VENTILATION




Fan ventilation	Article No.	Description	Suitable for	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)	all racks		
	195069			black	1
	195075			light grey	1
		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	1
	195071	for racks of 1000 mm depth		black	1
	195076	for racks of 600, 800 and 1200 mm depth		light grey	1
	195077	for racks of 1000 mm depth		light grey	1
		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)	all racks		
	195072			black	1
	195078			light grey	1
		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	1
	195074	for racks of 1000 mm depth		black	1
	195079	for racks of 600, 800 and 1200 mm depth		light grey	1
	195080	for racks of 1000 mm depth		light grey	1
		Compact fan ventilation units for roof mounting			
	195131	2-fan ventilation unit, including thermostat, for rack depths 600 / 800 / 1200 mm		black	1 set
	195132	2-fan ventilation unit, without thermostat, for rack depths 600 / 800 / 1200 mm		black	1 set
	195133	2-fan ventilation unit, including thermostat, for racks depth 1000 mm		black	1 set
	195134	2-fan ventilation unit, without thermostat, for racks depth 1000 mm		black	1 set
	195135	4-fan ventilation unit, including thermostat, for rack depths 600 / 800 / 1200 mm		black	1 set
	195136	4-fan ventilation unit, without thermostat, for rack depths 600 / 800 / 1200 mm		black	1 set
	195137	4-fan ventilation unit, including thermostat, for rack depth 1000 mm		black	1 set
195138	4-fan ventilation unit, without thermostat, for racks depth 1000 mm		black	1 set	

ACCESSORIES - PDU & LIGHTNING

iPDU	Article No.	Product	Description	PU
	4110619	PDU121-0700A-EN	iPDU A series, 7x C13, input: 16A 1 phase	1
	4110620	PDU121-1204A-EN	iPDU A series, 12x C13, 4x C19, input: 16A 1 phase	1
	4110621	PDU131-1604A-EN	iPDU A series, 16x C13, 4x C19, input: 32A 1 phase	1
	4110622	PDU141-1204A-EN	iPDU A series, 12x C13, 4x C19, input: 16A 3 phase	1
	4110623	PDU131-1204B-EN	iPDU B series, 12x C13, 4x C19, input: 32A 1 phase	1
	4110624	PDU131-1806B-EN	iPDU B series, 18x C13, 6x C19, input: 32A 1 phase	1
	4110625	PDU151-1806B-EN	iPDU B series, 18x C13, 6x C19, input: 32A 3 phase	1
	4110626	PDU131-1204C-EN	iPDU C series, 12x C13, 4x C19, input: 32A 1 phase	1
	4110627	PDU131-1806C-EN	iPDU C series, 18x C13, 6x C19, input: 32A 1 phase	1
	4110628	PDU151-1806C-EN	iPDU C series, 18x C13, 6x C19, input: 32A 3 phase	1
	4110629	PDU131-1204D-EN	iPDU D series, 12x C13, 4x C19, input: 32A 1 phase	1
	4110630	PDU131-1806D-EN	iPDU D series, 18x C13, 6x C19, input: 32A 1 phase	1
	4110631	PDU151-1806D-EN	iPDU D series, 18x C13, 6x C19, input: 32A 3 phase	1
	4124600	PDU141-1806D-EN	iPDU D series, 18x C13, 6x C19, input: 16A 3 phase	1
	4110640	PDU121-1806B-EN	iPDU B series, 18x C13, 6x C19, input: 16A 1 phase	1
	4124641	PDU141-1806B-EN	iPDU B series, 18x C13, 6x C19, input: 16A 3 phase	1
	4124642	PDU121-1806C-EN	iPDU C series, 18x C13, 6x C19, input: 16A 1 phase	1
	4124643	PDU141-1806C-EN	iPDU C series, 18x C13, 6x C19, input: 16A 3 phase	1
	4124644	PDU121-1806D-EN	iPDU D series, 18x C13, 6x C19, input: 16A 1 phase	1
	4110632	PDUA-TH	Temperature/humidity sensor for iPDU	1

For more information please visit our homepage: www.cabling.datwyler.com

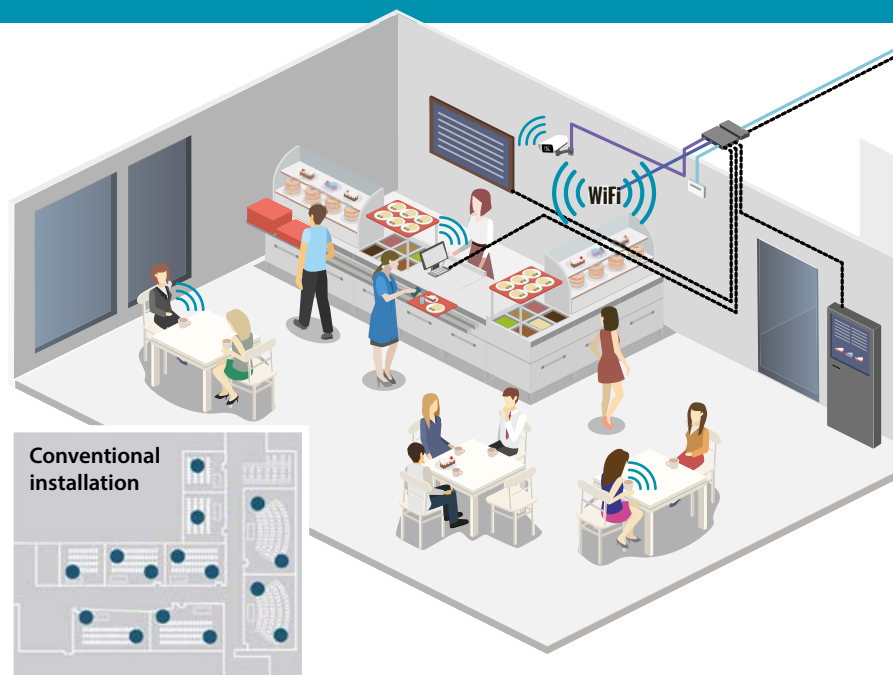
PDU	Article No.	Product	Sockets	Plug	Extra Functions	Connection cable	Colour	PU
	280020	PDU 19" 1U, 8xSK-SK 2m S GR	8x SK	SK	Switch	2 m	light grey	1
	280021	PDU 19" 1U, 9xSK-SK 2m GR	9x SK	SK		2 m	light grey	1
	280024	PDU 19" 1U, 8xSK-SK 2m OV GR	8x SK	SK	Overvoltage protection	2 m	light grey	1
	280033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

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	1
	280505	LED 19" 1U 230V / 7.2W S DC 3m BK	448 x 54.5 x 26 mm	230 V AC	black	1
	280506	LED 350mm 230V / 11.5W S DC SK ALU	350 x 92 x 46 mm	230 V AC	aluminum	1
	280512	Connection cable 230V 3m OR 3 x 1.52 mm	L = 3000 mm	230 V AC	orange	1
	280508	Door position contact 230V 1.5m AN BK, angled	95 x 63 x 24 mm	230 V AC	black	1
	280509	Door position contact 230V 1.5m ST BK, straight	95 x 63 x 24 mm	230 V AC	black	1

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.



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.



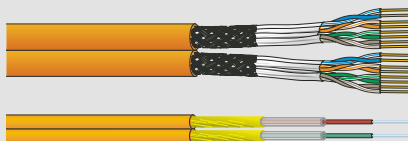
POWER SUPPLY

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 4x4 Wave 2 (3.47 Gbps) 802.11 ac 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

Xirrus Management System (XMS) provides a platform for the centralized management of HD Access Points. Network administrators use it for efficient and centralized configuration, administration and control of Xirrus WLAN networks.

Main functions:

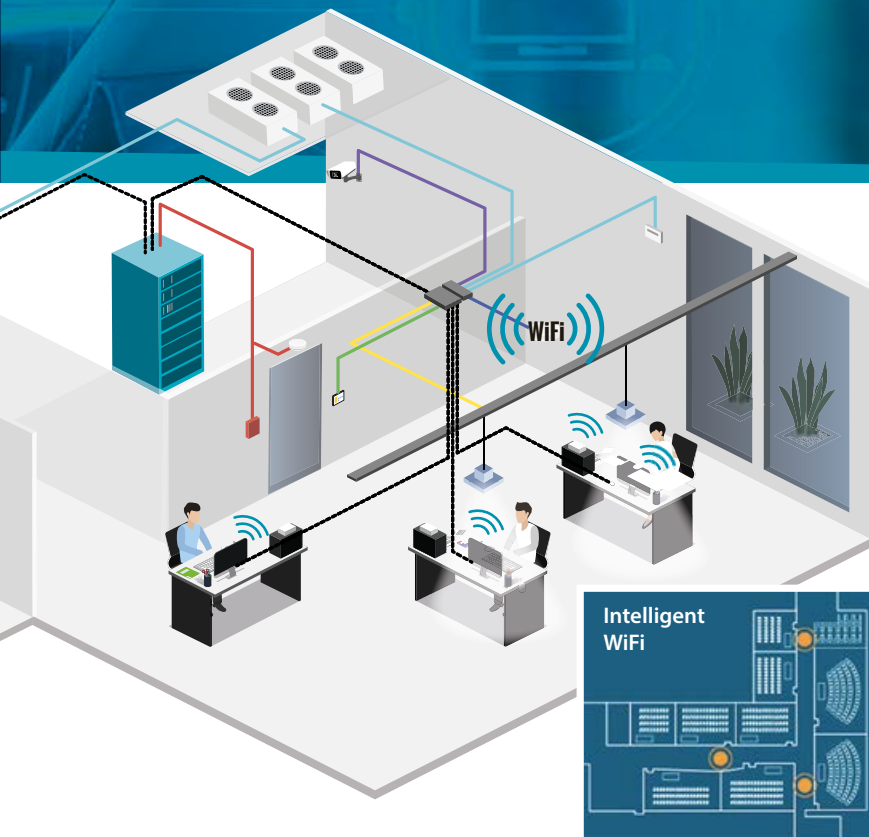
- Web-based user interface
- Network discovery
- Configuration management
- Station assurance
- Network assurance
- Intrusion detection
- Real-time monitoring
- Wireless network mapping
- Drill-down reports
- Safety monitoring and management

On-premise installation



or Cloud based management





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
- checking

Investment protection

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

NETWORK CONTROL

Due to an increasing number 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

Xirrus 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.

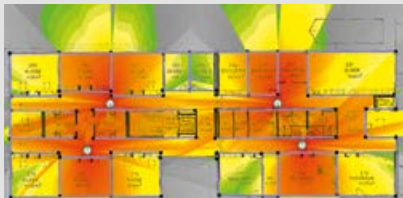
SERVICES

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 updates

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

WiFi 6 products will soon be available. Please see our website for current product information.

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



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.cabling.datwyler.com for details of our partners or contact our relevant branches.**

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Subject to technical modification.