DATA SOLUTIONS PRODUCT GUIDE

6TH EDITION

DÄTWYLER

CONTENTS

DATWYLER

Datwyler Cabling Solutions is a leading provider of high-quality system solutions, products and services for electrical and IT infrastructures in public and commercial buildings and data centres as well as for Fibre to the X (FTTx) networks. We enable organizations around the world to run their IT infrastructures seamlessly and scale their business with ease.

MILESTONES

1915	Adolf Dätwyler founded the company and began producing electrical conductors using aluminium.
1926	The production of telephone cables began.
1944	The production of high-frequency cables began.
1973	Kaved Ltd. was acquired. The value chain was extended by adding cable harnessing. Datwyler produced the first flat cable for lifts with up to 400 metre shaft height.
1986	The production of fibre optic cables began.
1987	"Uninet" (today: "Datwyler CU") data cables and the future-proof concept for structured building cabling were introduced.
1991	Datwyler Safety cable became the first fire safety cable in the world to successfully pass E90 circuit integrity testing as per DIN 4102-12.
1998	International expansion: Datwyler entered the Chinese market.
2002	Optofil Safety (today: "Datwyler FO Universal ... Safety") became the first metal-free fibre optic cable with E30 circuit integrity as per DIN 4102-12.

2005	Datwyler significantly expanded its international distribution network.
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 FTTx networks.
2010	Datwyler became full service main contractor for several FTTx projects in Switzerland. Introduction of FTTH special cables and wall outlets.
2011	Datwyler opened a branch in Dubai.
2012	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 12x24" with a diameter of only 10.4 mm were introduced.

QUALITY

QUALITY ASSURANCE

Of course, 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.

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 will maintain their integrity, even under the most demanding conditions.

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 most stringent quality-control. Quality without compromise is a constant expectation for all of our employees. It is also our guarantee to our customers.
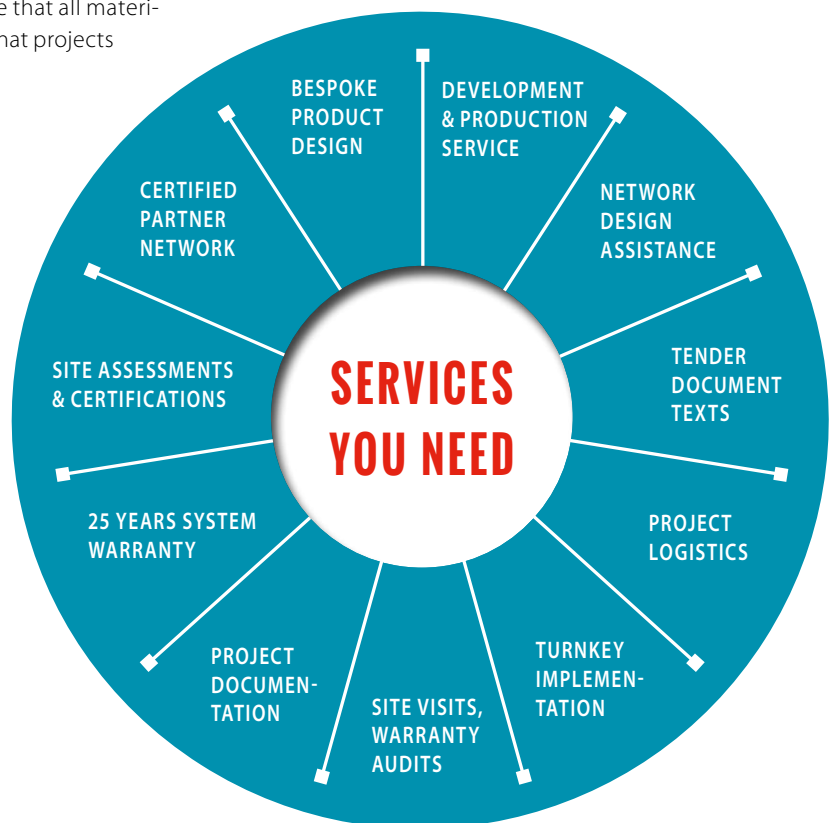
TURN-KEY PROJECTS

Datwyler serves as your single global contact for cabling and electrical 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 electrical infrastructure. These services that we offer in close co-operation with our certified partners include consulting, engineering, implementation and maintenance:

SERVICES
YOU NEED

BESPOKE PRODUCT DESIGN

DEVELOPMENT & PRODUCTION SERVICE

CERTIFIED PARTNER NETWORK

NETWORK DESIGN ASSISTANCE

SITE ASSESSMENTS & CERTIFICATIONS

TENDER DOCUMENT TEXTS

25 YEARS SYSTEM WARRANTY

PROJECT LOGISTICS

PROJECT DOCUMEN-TATION

SITE VISITS, WARRANTY AUDITS

TURNKEY IMPLEMEN-TATION

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

SERVICES

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
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.
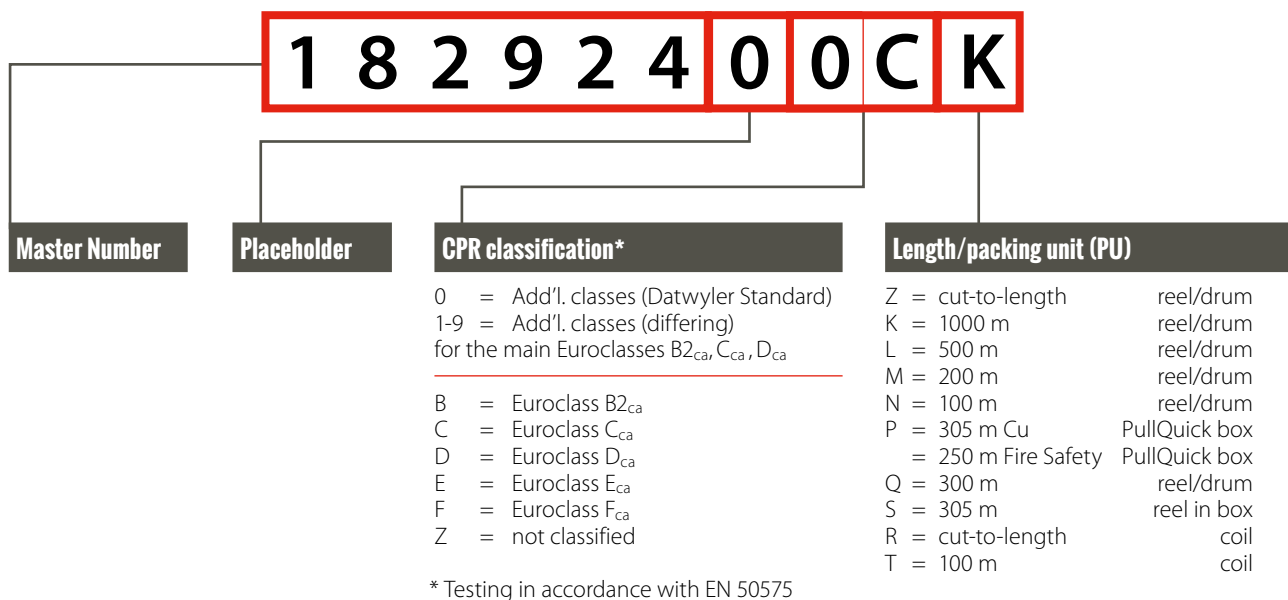
EXTENDED ARTICLE NUMBERS

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:

$$1\ 8\ 2\ 9\ 2\ 4\quad 0\quad 0\quad C\quad K$$

Master Number **Placeholder** **CPR classification*** **Length/packing unit (PU)**

CPR classification*	
0	= Add'l. classes (Datwyler Standard)
1-9	= Add'l. classes (differing)
for the main Euroclasses $B2_{ca}, C_{ca}, D_{ca}$	
B	= Euroclass $B2_{ca}$
C	= Euroclass C_{ca}
D	= Euroclass D_{ca}
E	= Euroclass E_{ca}
F	= Euroclass F_{ca}
Z	= not classified

* Testing in accordance with EN 50575

Length/packing unit (PU)		
Z	= cut-to-length	reel/drum
K	= 1000 m	reel/drum
L	= 500 m	reel/drum
M	= 200 m	reel/drum
N	= 100 m	reel/drum
P	= 305 m Cu	PullQuick box
	= 250 m Fire Safety	PullQuick box
Q	= 300 m	reel/drum
S	= 305 m	reel in box
R	= cut-to-length	coil
T	= 100 m	coil

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 Performance (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

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

COPPER SOLUTIONS

High-grade copper system solutions

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

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

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

Subject to technical modification.

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 (page 14f). 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 (page 22f).

SHIELDED VS. UNSHIELDED

The higher the demands on data infrastructure, the greater the influence will be from the surrounding systems. As part of the ISO 11801:2017-11 standard, new parameters have been set against Coupling Attenuation 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 mobile phone within the area of a 1GBase-T application can create interference on a 1GBase-T unshielded application.
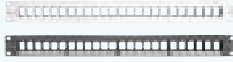
Datwyler therefore recommends shielded Channel solutions for guaranteed performance on a secure network.
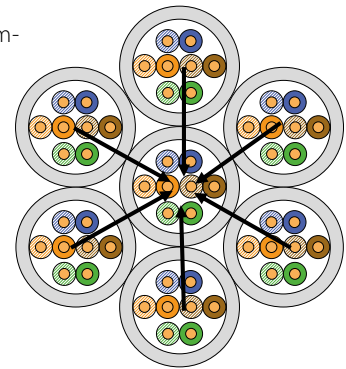
DATWYLER CABLES
+ DATWYLER COMPONENTS
+ QUALITY ENGINEERING
= 25-YEAR SYSTEM WARRANTY
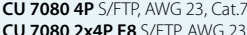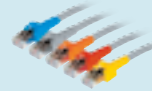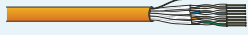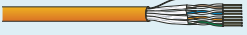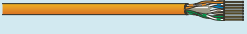
The sophisticated Datwyler training and certification programme for installation partners guarantees the optimal installation quality of our products. Certified installers can offer a Datwyler warranty for the installed systems: normally for 25 years, but this can be extended depending on project criteria.

COPPER CABLING SYSTEMS

Category / Class	Patch panel		
shielded			
Cat. 8 / Class I 2000 MHz	**KS 24x** Keystone patch panel, unloaded	**KS 24x-a** Keystone patch panel, angled, unloaded	
Cat. 7$_A$ / Class F$_A$ 1000 MHz	**MGK 24x** unloaded, stainless steel (PS GG-45)	**MPS 24x** unloaded, stainless steel (PS-TERA)	
Cat. 6$_A$ / Class E$_A$ 500 MHz	**KS 24x** Keystone patch panel, unloaded	**KS 24x-a** Keystone patch panel, angled, unloaded	**CSA 24/8 Cat.6$_A$** alternative: Compact Solution with integrated RJ45 modules
Cat. 6 / Class E 250 MHz	**KS 24x** Keystone patch panel, unloaded	**KS 24x-a** Keystone patch panel, angled, unloaded	**CSP 24/8 Cat.6** alternative: Compact Solution with integrated RJ45 modules
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** alternative: 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
CU 8203 4P S/FTP, AWG 23		**RJ45 module KS-T8 Class I**	**RJ45 patch cord Cat. 8** CU 8206 flex
CU 7150 4P S/FTP, AWG 22 **CU 7150 2x4P F8** S/FTP, AWG 22	**CU 7120 4P** S/FTP, AWG 23 **CU 7120 2x4P F8** S/FTP, AWG 23	**PS-GG45 7$_A$ Cat. 7$_A$**	**Patch cord PS-GG45 4P**
CU 7702 4P S/FTP, AWG 22 **CU 7702 2x4P F8** S/FTP, AWG 22		**PS-TERA 4P Cat. 7$_A$**	**Patch cord PS-TERA 4P**
CU 7080 4P S/FTP, AWG 23, Cat.7 **CU 7080 2x4P F8** S/FTP, AWG 23, Cat.7	**CU 6552 4P** F/FTP, AWG 23 **CU 6552 2x4P F8** F/FTP, AWG 23	**RJ45 module KS-T Plus 1/8 Cat. 6$_A$**	**RJ45 patch cord Cat. 6$_A$/E$_A$** CU 7702 flex
CU 7060 4P S/FTP, AWG 23 **CU 7060 2x4P F8** S/FTP, AWG 23	**CU 6502 4P** U/FTP, AWG 23 **CU 6502 2x4P F8** U/FTP, AWG 23		
CU 7060 4P S/FTP, AWG 23 **CU 7060 2x4P F8** S/FTP, AWG 23		**RJ45 module KS-TS 1/8 Cat. 6**	**RJ45 patch cord Cat. 6$_A$/E$_A$** CU 7702 flex
CU 6002 4P U/FTP, AWG 23			
CU 5502 4P SF/UTP, AWG 24		**RJ45 module KS-T5 1/8 Cat. 5e**	**RJ45 patch cord Cat. 5e** CU 5502 flex
CU 5002 4P F/UTP, AWG 24			
CU 692 4P U/UTP, AWG 23		**RJ45 module KU Plus 1/8 Cat. 6$_A$ (IEC)**	**RJ45 patch cord Cat. 6$_A$/E$_A$** CU 7702 flex
CU 662 4P U/UTP, AWG 24		**RJ45 module KU-T 1/8 Cat. 6**	**RJ45 patch cord Cat. 6** CU 602 flex
		RJ45 module KU 1/8 Cat. 6	**RJ45 patch cord Cat. 6**
CU 502 4P U/UTP, AWG 24		**RJ45 module KU-T 1/8 Cat. 5e**	**RJ45 patch cord Cat. 5e**
		RJ45 module KU 1/8 Cat. 5e	**RJ45 patch cord Cat. 5e**

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	**CU 7080**	**CU 6502**
4P / 2x4P, Cat.7$_A$, AWG22	4P / 2x4P, Cat.7, AWG23	4P / 2x4P, Cat.6$_A$, AWG23
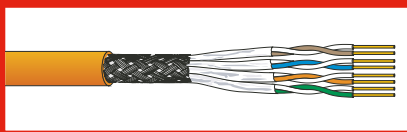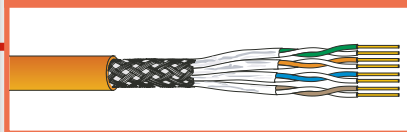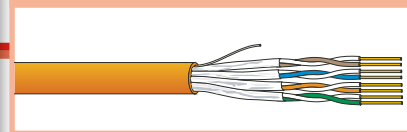
The colours indicate which cables and components are correlated.
Please find the product data sheets and link perfomance certificates on the Datwyler website. Besides the article numbers you will also find the respective Declarations of Performances (DoPs according to CPR) as PDF files for downloading.

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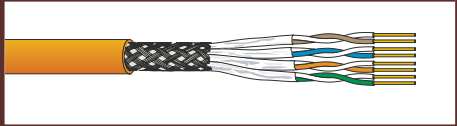
KS-T Plus 1/8
tool-less, Cat.6$_A$

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 Plus 1/8
Cat.6$_A$

* to complete the Channel use.

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

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

Most Economical Link

Most Popular Link

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
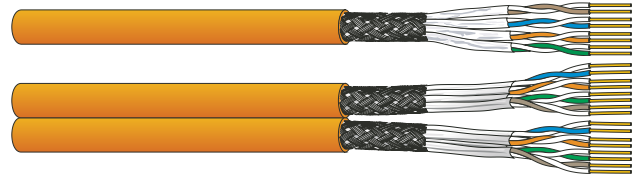
F/FTP
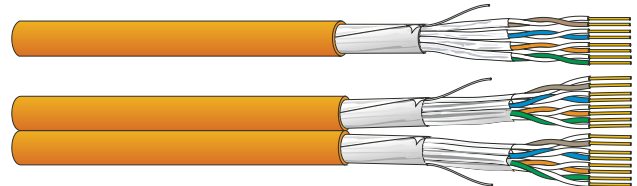
U/FTP

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										
1829250…K	4 x 2 x 0.64 (AWG22)	FRNC/LS0H[1]	7.6	65.3	40.2	0.18	0.62	orange	1000 m drum	PoE++
1829260…L	2x (4 x 2 x 0.64 AWG22)	FRNC/LS0H[1]	7.6 x 16.0	131.4	80.4	0.36	1.24	orange	500 m drum	
CU 7702 4P, S/FTP, AWG22, Category 7$_A$ data cable, shielded										
1774000…K	4 x 2 x 0.62 (AWG22)	FRNC/LS0H[1]	7.6	61.9	26.4	0.18	0.64	orange	1000 m drum	PoE++
1773900…L	2x (4 x 2 x 0.62 AWG22)	FRNC/LS0H[1]	7.6 x 16.2	125.7	52.8	0.36	1.29	orange	500 m drum	
CU 7120 4P, F/FTP, AWG23, Category 7$_A$ data cable, shielded										
1914660…K	4 x 2 x 0.59 (AWG23)	FRNC/LS0H[1]	7.6	63.0	32.3	0.18	0.649	orange	1000 m drum	PoE+
1914670…L	2x (4 x 2 x 0.59 AWG 23)	FRNC/LS0H[1]	7.6 x 16.0	126.0	64.6	0.36	1.298	orange	500 m drum	
CU 7080 4P, S/FTP, AWG23, Category 7 data cable, shielded										
1829110…K	4 x 2 x 0.57 (AWG23)	FRNC/LS0H[1]	7.2	54.8	31.1	0.16	0.57	orange	1000 m drum	PoE+
1829120…L	2x (4 x 2 x 0.57 AWG23)	FRNC/LS0H[1]	7.2 x 15.4	109.6	62.2	0.32	1.14	orange	500 m drum	
CU 7060 4P, S/FTP, AWG23, Category 6$_A$ data cable, shielded										
1829240…K	4 x 2 x 0.55 (AWG23)	FRNC/LS0H[1]	7.1	55.0	26.4	0.152	0.55	orange	1000 m drum	PoE
1829270…L	2x (4 x 2 x 0.55 AWG23)	FRNC/LS0H[1]	7.1 x 15	110.0	52.8	0.304	1.10	orange	500 m drum	
CU 6552 4P, F/FTP, AWG23, Category 6$_A$ data cable, shielded										
1914540…K	4 x 2 x 0.55 (AWG23)	FRNC/LS0H[1]	7.0	48.5	20.0	0.14	0.52	orange	1000 m drum	PoE
1914560…L	2x (4 x 2 x 0.55 AWG 23)	FRNC/LS0H[1]	7.0 x14.3	97.0	40.0	0.28	1.04	orange	500 m drum	
CU 6502 4P, U/FTP, AWG23, Category 6$_A$ data cable, shielded										
1914530…K	4 x 2 x 0.55 (AWG23)	FRNC/LS0H[1]	7.0	47.8	20.0	0.15	0.55	orange	1000 m drum	PoE
1914550…L	2x (4 x 2 x 0.55 AWG 23)	FRNC/LS0H[1]	7.0 x 14.3	95.6	40.0	0.30	1.10	orange	500 m drum	

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).
For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.
[1] FRNC/LS0H = Flame Retardant Non Corrosive/Low Smoke Zero Halogen

RJ45 MODULES SHIELDED

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

Article No.	Description	Colour	PU	High-End Link	Premium Link	Most Economical Link	Most Popular Link
418061	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

Article No.	Description	Colour	PU
418062	Dust shutters for module KS-T Plus, Cat.6$_A$ (1 Set = 10 Stk.)	white	1 set
418063	Dust shutters for module KS-T Plus, Cat.6$_A$ (1 Set = 10 Stk.)	black	1 set
418064	Dust shutters for module KS-T Plus, Cat.6$_A$ (1 Set = 10 Stk.)	yellow	1 set
418065	Dust shutters for module KS-T Plus, Cat.6$_A$ (1 Set = 10 Stk.)	blue	1 set
418066	Dust shutters for module KS-T Plus, Cat.6$_A$ (1 Set = 10 Stk.)	green	1 set
418067	Dust shutters for module KS-T Plus, Cat.6$_A$ (1 Set = 10 Stk.)	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
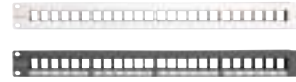
Length (m)	Datwyler patch cords, RJ45, Cat. 6$_A$/E$_A$, shielded, wiring 1:1 (with CU 7702 4P flex, FRNC/LS0H[1], Cat. 7)					
	grey	green	yellow	red	blue	orange
0,5	653503	653553	653603	653653	653703	653753
1,0	653508	653558	653608	653658	653708	653758
1,5	653509	653559	653609	653659	653709	653759
2,0	653510	653560	653610	653660	653710	653760
2,5	653511	653561	653611	653661	653711	653761
3,0	653512	653562	653612	653662	653712	653762
4,0	653514	653564	653614	653664	653714	653764
5,0	653516	653566	653616	653666	653716	653766
6,0	653518	653568	653618	653668	653718	653768
7,0	653520	653570	653620	653670	653720	653770
8,0	653522	653572	653622	653672	653722	653772
9,0	653524	653574	653624	653674	653724	653774
10,0	653526	653576	653626	653676	653726	653776
12,5	653527	653577	653627	653677	653727	653777
15,0	653528	653578	653628	653678	653728	653778
20,0	653530	653580	653630	653680	653730	653780

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

PATCH PANELS

for RJ45 modules, Cat. 6_A/E_A , shielded

KS 24x
Keystone patch panel, unloaded

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

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

LSA plus/IDC insertion tool

Article No.	Description	Colour (similar to)	PU
418019	Patch panel KS 24x, 19"/1U, for 24x RJ45 Keystone module, FTP (without modules)	black, RAL 9005	1 pc.
418020	Patch panel KS 24x, 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.
417980	Patch panel CSA Plus 24/8 with 24x RJ45 jack Cat.6_A (IEC)	grey, RAL 7035	1 pc.
1401609	LSA plus/IDC insertion tool		1 pc.

ACCESSORIES

Cable management panels

Blank plate

Blank covers for unused
Keystone openings

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

For more accessories please visit our website

FACEPLATES

for RJ45 modules

	Article No.	Description	Colour (similar to)	PU
German standard				
1	185866	Faceplate for 1 module with Keystone snap-in fitting	white, RAL 9010	1 pc.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.

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

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

4. 2-port, with straight outlet

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

	Article No.	Description	Colour (similar to)	PU
French standard				
5	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
6	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
7	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
8	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
9	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.

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

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

8. Bezel, 2-port, angled

9. Bezel, 1-port, angled

	Article No.	Description	Colour (similar to)	PU
British standard				
9	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
10	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
11	185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
12	185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.

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

Flush/duct mounted
Cover frame: 86 x 86 mm

11. 1-port, with straight outlet
12. 2-port, with straight outlet

Flush mounted
Central plate: 50 x 50 mm
(2x 25 x 50 mm)
Cover frame: 86 x 86 mm

	Article No.	Description	Colour (similar to)	PU
American / Italian standard (503 design)				
13	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
14	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
15	440105	Blank cover for 503 faceplate	white	100 pcs.
16	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
17	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
18	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
19	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
20	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
21	440135	RJ45 adapter for Gewiss system	white	100 pcs.
22	440140	RJ45 adapter for Vimar Plana	white	100 pcs.

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

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

	Article No.	Description	Colour (similar to)	PU
Universal				
23	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.
24	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.

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

Surface mounted
For 2 modules: 68 x 65 x 30 mm
For 4 modules: 118 x 85 x 30 mm

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	Sheath	Sheath Ø	Weight	Cu weight	Colour	PU	PoE
	n x n x mm (AWG)		mm	kg/km	kg/km			
CU 692 4P, U/UTP, AWG23, Category 6$_A$ data cable, unshielded								
1942590…L	4 x 2 x 0.60 (AWG23)	FR/PVC [1]	8.9	66.2	24.2	grey	500 m drum	
1942580…L	4 x 2 x 0.60 (AWG23)	FRNC/LSOH [2]	8.9	66.2	24.2	orange	500 m drum	

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

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

[2] FR/PVC = Flame Retardant/Polyvinylchloride

RJ45 MODULES

unshielded

KU Plus 1/8, Cat. 6$_A$ (IEC), unshielded, white

KU Plus 1/8, Cat. 6$_A$ (IEC), unshielded, black

Article No.	Description	Colour	PU
418085	Keystone Module KU Plus 1/8, Cat. 6$_A$ (IEC), unshielded, with dust cover	white	10 pcs.
418086	Keystone Module KU Plus 1/8, Cat. 6$_A$ (IEC), unshielded with dust cover	black	10 pcs.

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 (m)	Datwyler patch cord, RJ45, Cat.6_A/E_A, shielded, wiring 1:1 (with CU 7702 4P flex, FRNC/LS0H1), Cat. 7)					
	grey	green	yellow	red	blue	orange
0,5	653503	653553	653603	653653	653703	653753
1,0	653508	653558	653608	653658	653708	653758
1,5	653509	653559	653609	653659	653709	653759
2,0	653510	653560	653610	653660	653710	653760
2,5	653511	653561	653611	653661	653711	653761
3,0	653512	653562	653612	653662	653712	653762
4,0	653514	653564	653614	653664	653714	653764
5,0	653516	653566	653616	653666	653716	653766
6,0	653518	653568	653618	653668	653718	653768
7,0	653520	653570	653620	653670	653720	653770
8,0	653522	653572	653622	653672	653722	653772
9,0	653524	653574	653624	653674	653724	653774
10,0	653526	653576	653626	653676	653726	653776
12,5	653527	653577	653627	653677	653727	653777
15,0	653528	653578	653628	653678	653728	653778
20,0	653530	653580	653630	653680	653730	653780

[1] FRNC/LS0H = 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$_A$ Keystone module UTP (delivery without modules)	grey, RAL 7035	1 pc.
418028	Patch panel KU 24x-sg, 19"/1U , for 24x RJ45 Cat. 6$_A$ Keystone module UTP (delivery without modules)	black, RAL 9005	1 pc.
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.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.

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

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

4. 2-port, with straight outlet

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

	Article No.	Description	Colour (similar to)	PU
French standard				
5	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
6	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
7	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
8	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
9	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.

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

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

8. Bezel, 2-port, angled

9. Bezel, 1-port, angled

	Article No.	Description	Colour (similar to)	PU
British standard				
9	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
10	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
11	185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
12	185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.

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

Flush/duct mounted
Cover frame: 86 x 86 mm

11. 1-port, with straight outlet
12. 2-port, with straight outlet

Flush mounted
Central plate: 50 x 50 mm
(2x 25 x 50 mm)
Cover frame: 86 x 86 mm

	Article No.	Description	Colour (similar to)	PU
American / Italian standard (503 design)				
13	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
14	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
15	440105	Blank cover for 503 faceplate	white	100 pcs.
16	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
17	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
18	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
19	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
20	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
21	440135	RJ45 adapter for Gewiss system	white	100 pcs.
22	440140	RJ45 adapter for Vimar Plana	white	100 pcs.

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

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

	Article No.	Description	Colour (similar to)	PU
Universal				
23	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.
24	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.

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

Surface mounted
For 2 modules: 68 x 65 x 30 mm
For 4 modules: 118 x 85 x 30 mm

DATA CABLE - CATEGORY 8

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

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

Article No.	Dimensions	Sheath	Sheath Ø	Weight	Cu weight	Fire load		Colour	PU	PoE
	n x n x mm (AWG)		mm	kg/km	kg/km	kWh/m	MJ/m			
1920090…K	4 x 2 x 0.59 (AWG23)	FRNC/LS0H[1)]	8.1	67.3	33.2	0.18	0.65	orange	1000 m drum	PoE++

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings 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 Kaystone module
- Especially developed for 25/40GBase-T

KS-T8 Class I

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

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

- Especially developed for applications beyond 10GBase-T
- PS-GG45: the "Two-in-One module" has 12 contacts
  which work in two different transmission modes:
  Standard = RJ45, High-speed = GG45
- PS-TERA™: for patch cord PS-TERA

PS-GG45 7$_A$, Cat. 7$_A$

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

Termination Tool for PS-GG45

PS-TERA tool

Parallel pliers

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.
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.

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	Patch cord	Plug 1	Plug 2	Cable	Cable colour	Wiring
400120	2.0	Measurement/patch cord 4P, 1000 MHz	PS-GG45 7$_A$	PS-GG45 7$_A$	FRNC/LS0H	orange	1:1
400121	1.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1
400122	2.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1
400123	3.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1
400125	5.0	Adapter patch cord 4P	PS-GG45 7$_A$	RJ45	FRNC/LS0H	orange	1:1

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

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

Article No.	Length m	Boot colour PS-TERA	Boot colour RJ45	Adaption	Description	Cable	Cable colour	Pin connection
654058	1.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654060	2.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654062	3.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654066	5.0	black	black	Patch cord	PS-TERA 4P to RJ45	CU 7702 4P flex FRNC/LS0H	grey	1:1
654158	1.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654160	2.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654162	3.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654166	5.0	yellow	yellow	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	100BT (A)
654258	1.0	blue	grey	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	TR
654260	2.0	blue	grey	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	TR
654262	3.0	blue	grey	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	TR
654266	5.0	blue	grey	Patch cord	PS-TERA 2P to RJ45	CU 2P flex Multimedia FRNC/LS0H	grey	TR
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

Subject to technical modification.

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

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

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

MPS 24x for PS-TERA 4P

MGK 24x for PS-GG45 7$_A$

MGK 48x for PS-GG45 7$_A$

Article No.	Description	Colour/Material	PU
185840	Patch panel MPS 24x, 19"/1U, for 24x PS-TERA 4P modules (without modules)	grey, RAL 7035	1 pc.
185841	Patch panel MPS 24x, 19"/1U, for 24x PS-TERA 4P modules (without modules)	stainless steel, blank	1 pc.
440042	Patch panel MGK 24x, 19"/1U, for 24x RJ45 Keystone modules, FTP (without modules) especially for PS-GG45 7$_A$ modules	stainless steel, blank	1 pc.
440043	Patch panel MGK 24x, 19"/1U, for 24x RJ45 Keystone modules, FTP (without modules) especially for PS-GG45 7$_A$ modules	grey, RAL 7035	1 pc.
440051	Patch panel MGK 48x 19"/1,5U, for 48x RJ45 Keystone modules, FTP (without modules) especially for PS-GG45 7$_A$ modules	grey, RAL 7035	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.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.

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

4. 2-port, with straight outlet

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

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

	Article No.	Description	Colour	PU
French standard				
5	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
6	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
7	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
8	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
9	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.

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

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

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

	Article No.	Description	Colour	PU
British standard				
9	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
10	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
11	185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
12	185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.

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

11. 1-port, with straight outlet
12. 2-port, with straight outlet

Flush/duct mounted
Cover frame: 86 x 86 mm

Flush mounted
Central plate: 50 x 50 mm
(2x 25 x 50 mm)
Cover frame: 86 x 86 mm

	Article No.	Description	Colour	PU
American / Italian standard (503 design)				
13	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
14	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
15	440105	Blank cover for 503 faceplate	white	100 pcs.
16	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
17	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
18	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
19	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
20	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
21	440135	RJ45 adapter for Gewiss system	white	100 pcs.
22	440140	RJ45 adapter for Vimar Plana	white	100 pcs.

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

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

	Article No.	Description	Colour	PU
Universal				
23	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.
24	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.

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

Surface mounted
For 2 modules: 68 x 65 x 30 mm
For 4 modules: 118 x 85 x 30 mm

for PS-TERA modules

	Article No.	Description	Colour	PU
25	185763	Flush faceplate, angled outlet, for up to 2x PS/MS module, with cover frame (without modules)	white, RAL 9010	1 pc.
26	185762	Wall mounted outlet Edizio 56 mm, angled, for up to 2x PS/MS module (without modules)	white, RAL 9010	1 pc.
27	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.

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

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

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

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 1000 Base-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	
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	

DATA CABLE - CATEGORY 5e

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

Article No.	Dimensions	Sheath	Sheath Ø	Weight	Cu weight	Fire load	MJ/m	Colour	PU	PoE
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 PullQuick box	
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/LS0H [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/LS0H [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/LS0H [2]	5.5	33.8	18.1	0.12	0.43	grey	1000 m drum	

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).
For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.
[1] FR/PVC = Flame Retardant/Polyvinylchloride   [2] FRNC/LS0H = 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/PVC[1] or FRNC/LS0H[2] sheath

- grey, with moulded and bend limiting boots
- more colours on request

Länge (m)[3]	FR/PVC[1]	FRNC/LS0H[2]
	grey	grey
1,0	309021	309321
1,5	309022	309322
2,0	309023	309323
3,0	309025	309325
4,0	309026	309326
5,0	309027	309327
7,0	309029	309329
10,0	309031	309331

Patch cords with CU 602 4P flex, FRNC/LS0H[1]
- with coloured bend limiting boot

Length (m)	Datwyler patch cord, RJ45, Cat. 6						
	grey	green	yellow	red	blue	white	black
0,5	651553	651853	651703	651803	651753	651653	651603
1,0	651558	651858	651708	651808	651758	651658	651608
1,5	651559	651859	651709	651809	651759	651659	651609
2,0	651560	651860	651710	651810	651760	651660	651610
2,5	651561	651861	651711	651811	651761	651661	651611
3,0	651562	651862	651712	651812	651762	651662	651612
4,0	651564	651864	651714	651814	651764	651664	651614
5,0	651566	651866	651716	651816	651766	651666	651616
6,0	651568	651868	651718	651818	651768	651668	651618
7,0	651570	651870	651720	651820	651770	651670	651620
7,5	651571	651871	651721	651821	651771	651671	651621
8,0	651572	651872	651722	651822	651772	651672	651622
10,0	651576	651876	651726	651826	651776	651676	651626
15,0	651578	651878	651728	651828	651778	651678	651628
20,0	651580	651880	651730	651830	651780	651680	651630

Patch cords, RJ45, Cat. 5e, 100 MHz, unshielded, 4P, wiring 1:1
Patch cords, U/UTP, with FR/PVC[1] or FRNC/LSOH[2] sheath

- grey, with moulded and bend limiting boots.
- cable sheath made of FR/PVC[1]
- suitable for all applications up to Class D (100 MHz), e.g. 1000Base-T, 100Base-T, ISDN

Length (m)[3]	FR/PVC[1]	FRNC/LS0H[2]
1,0	309001	309301
1,5	309002	309302
2,0	309003	309303
3,0	309005	309305
4,0	309006	309306
5,0	309007	309307
7,0	309009	309309
10,0	309011	309310

[1] FR/PVC = Flame Retardant/Polyvinylchloride

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

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

PATCH PANELS

for RJ45 modules, Cat. 6, unshielded
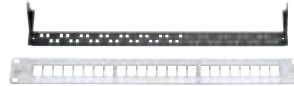
KU 24x
Keystone patch panel, unloaded
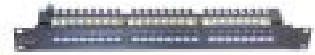
CUP 24/8 Cat.6, with integrated
RJ45 modules, unshielded

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.
2	185867	Faceplate for 2 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
3	185869	Faceplate for 3 modules with Keystone snap-in fitting	white, RAL 9010	1 pc.
4	185861	Faceplate, straigth outlet, for 2x RJ45 Keystone module	white, RAL 9010	1 pc.

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

4. 2-port, with straight outlet

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

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

	Article No.	Description	Colour (similar to)	PU
French standard				
5	418030	Keystone, 1-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
6	418032	Keystone, 2-port, 45 x 45 mm, for Module 45 system	bright white	1 pc.
7	418031	Keystone, 1-port, slim, 45 x 22.5 mm, for Module 45 system	bright white	1 pc.
8	418033	Keystone, 2-port, 45 x 45 mm, angled	bright white	1 pc.
9	418029	Keystone, 1-port, 45 x 45 mm, angled	bright white	1 pc.
	418034	French Standard Faceplate for 45 x 45 mm bezel	bright white	1 pc.

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

8. Bezel, 2-port, angled

9. Bezel, 1-port, angled

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

	Article No.	Description	Colour (similar to)	PU
British standard				
9	185862	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
10	185863	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.
11	185864	Faceplate for 1 RJ45 Keystone module	white, RAL 9010	1 pc.
12	185865	Faceplate for 2 RJ45 Keystone modules	white, RAL 9010	1 pc.

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

11. 1-port, with straight outlet
12. 2-port, with straight outlet

Flush/duct mounted
Cover frame: 86 x 86 mm

Flush mounted
Central plate: 50 x 50 mm
(2x 25 x 50 mm)
Cover frame: 86 x 86 mm

	Article No.	Description	Colour (similar to)	PU
American / Italian standard (503 design)				
13	440101	503 faceplate for 2 modules with Keystone snap-in fitting	white	100 pcs.
14	440102	503 faceplate for 3 modules with Keystone snap-in fitting	white	100 pcs.
15	440105	Blank cover for 503 faceplate	white	100 pcs.
16	440106	External wall box for 503 faceplate, depth 55 mm	white	100 pcs.
17	440111	RJ45 adapter for Bticino Axolute	silver	100 pcs.
18	440114	RJ45 adapter for Bticino Living International	black	100 pcs.
19	440115	RJ45 adapter for Bticino Living Light	white	100 pcs.
20	440120	RJ45 adapter for Bticino Matix	white	100 pcs.
21	440135	RJ45 adapter for Gewiss system	white	100 pcs.
22	440140	RJ45 adapter for Vimar Plana	white	100 pcs.

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

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

	Article No.	Description	Colour (similar to)	PU
Universal				
23	418035	Surface mount box for 2 Keystone modules	white, RAL 9010	1 pc.
	418036	Surface mount box for 4 Keystone modules	white, RAL 9010	1 pc.
24	418037	Surface mount box with dust shutters for 2 Keystone modules	white, RAL 9010	1 pc.
	418038	Surface mount box with dust shutters for 4 Keystone modules	white, RAL 9010	1 pc.

23. Surface mount box

24. Surface mount box with dust shutters

Surface mounted
For 2 modules: 68 x 65 x 30 mm
For 4 modules: 118 x 85 x 30 mm

Subject to technical modification.

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 7$_A$ modules / Class 7$_A$			
PS-GG45 7$_A$ 4P (Cat. 7$_A$)	min. 10Gbase-T	shielded	flex / solid
PS TERA 4P Cat. 7$_A$	min. 10GBase-T	shielded	solid
Category 6$_A$ modules / Class E$_A$			
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 / solid
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]
Solid BOL (Breakout light) cables					
6-fold	CU 7002 6x4P	F	min. 10GBase-T	21.2	85
Flexible BOL (Breakout light) cables					
6-fold	CU 7702 6x4P flex	F	min. 10GBase-T	17.6	60
12-fold	CU 7702 12x4P flex	F	min. 10GBase-T	22.2	60
Flexible tube 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

Divider

Label for single cable

Connector (module)

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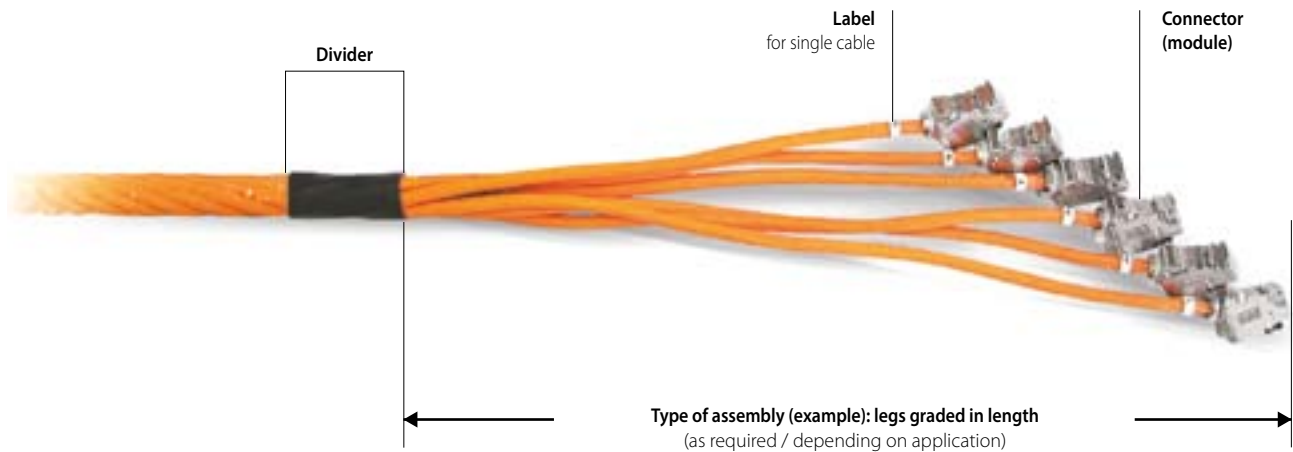
Dimensions

Flexible BOL cable 12-fold
CU 7702 12x4P flex

22.2 mm

Single cable
CU 7702 4P flex

PP foil

5.8
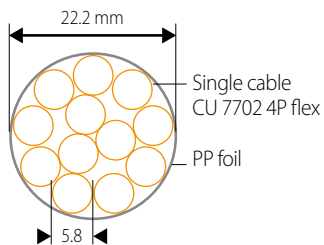
Solid BOL cable 6-fold
CU 7002 6x4P

21.2 mm

Single cable
CU 7002 4P

PP foil
PP yarn

7.4
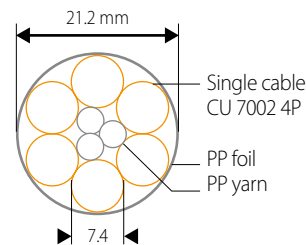
Flexible BOL cable 6-fold
CU 7702 6x4P flex

17.6 mm

Single cable
CU 7702 4P flex

PP foil
PP yarn

5.8

Rack A

Rack B

fixing point

A

B

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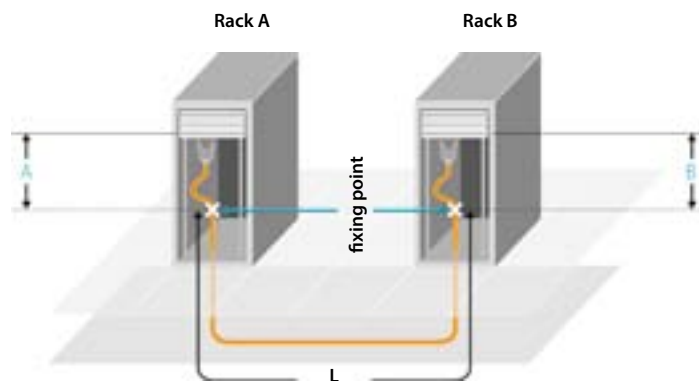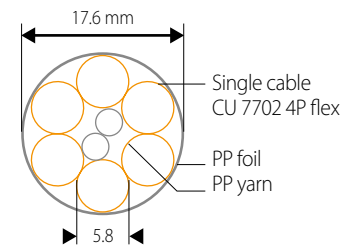
Length definition
The following criteria are decisive for all pre-assembled Datwyler copper trunks:

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

CONSOLIDATION POINT BOXES

for one 24-port front plate

Dimensions
W x H x D: 480 x 55 x 190 mm (with lock: H = 57 mm)

for one 12-port front plate

Dimensions
W x H x D: 260 x 55 x 190 mm (with lock: H = 57 mm)

for one 6-port front plate

Dimensions
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.

Front plate 24x, 12x and 6x MGK, suitable for the following Datwyler modules:
- PS-GG45 7_A 4P Cat. 7_A shielded
- RJ45 module KS-T Plus 1/8 Cat. 6_A shielded
- RJ45 module KS-TS 1/8 Cat. 6/E_A shielded
- RJ45 module KS-T 5 1/8 Cat. 5e shielded
- RJ45 module KU-T 1/8 Cat. 6 / Cat. 5e unshielded

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

ACCESSORIES

RJ45 coupler, 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 (Link) / Class E

RJ45 feed-trough coupler
Cat. 6 Link/Class E, 90°, angled

RJ45 Keystone coupler,
Cat. 6 Link/Class E, 180°, straight

Field assembly plug

RJ45 plug IP20, Cat. 6_A,
shielded, field assembly

Article No.	Description	Colour/Material	PU
417445	RJ45 feed-trough coupler Cat. 6 Link/Class E, 90°, angled	metal	1 pc.
418056	RJ45 Keystone coupler, Cat. 6 Link/Class E, 180°, straight	metal	1 pc.
417523	RJ45 plug IP20, Cat. 6_A, shielded, for field assembly	black	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 (delivery without module)	metal	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

Application spaces

From a communications pathway per-spective, premises networks consist of four primary spaces:

Backbone (Campus)	OS2, OM3, OM4
Data Centre	OS2, OM3, OM4
Riser	OS2, OM3, OM4
Horizontal (Desk)	OM2, 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.

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.

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. For this reason, single-mode fibre is not limited by modal bandwidth, but rather by attenuation, chromatic dispersion and higher overall system cost (driven by the higher cost of single-mode transceivers).

Coating   Cladding   Core
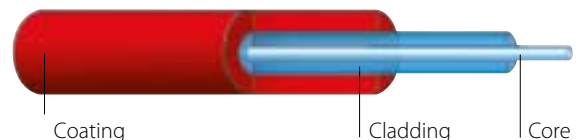
Single-mode E9/125

Optical single-mode fibre cable transmission performance parameters

Classification	Optical fibre and cable type	Application	Wavelenght [nm]	Maximum attenuation [dB/km]	Maximum attenuation Datwyler G.652.D (OS2) [dB/km]	Maximum attenuation Datwyler G.652.D (BOL) (OS2 bend optimized) [dB/km]
ITU-T G.652.D OS2	Single-mode Universal / Outdoor	Backbone (Campus)	1310 1550	0.4 0.3	0.34 0.21	n/a n/a
ITU-T G.652.D (BLO) OS2 bend optimized	Single-mode Universal / Outdoor	Backbone (Campus)	1310 1550	0.4 0.3	n/a n/a	0.34 0.21
ITU-T G.652.D OS2	Single-mode Indoor / Universal	Backbone (Riser)	1310 1550	0.4 0.3	0.36 (0.34 typical) 0.24 (0.22 typical)	n/a n/a
ITU-T G.652.D (BLO) OS2 bend optimized	Single-mode Indoor / Universal	Backbone (Riser)	1310 1550	0.4 0.3	n/a n/a	0.36 0.23
ITU-T G.652.D OS2	Single-mode Indoor / Mini Breakout	Data Centre	1310 1550	0.4 0.3	0.36 (0.34 typical) 0.24 (0.22 typical)	n/a n/a
ITU-T G.652.D (BLO) OS2 bend optimized	Single-mode Indoor / Mini Breakout	Data Centre	1310 1550	0.4 0.3	n/a n/a	0.36 0.23

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 best suited for premises applications where links are less than 1 kilometre and there are many connectors. The larger core diameter of multimode fibre allows the use of inexpensive light emitting diode (LED) and vertical cavity surface emitting laser (VCSEL) transmitters 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 can be 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.

Coating   Cladding   Core
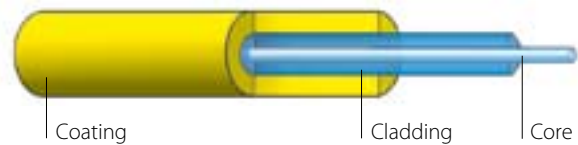
Multimode G50/125 or G62.5/125

Optical multimode fibre cable transmission performance parameters

Classification	Optical fibre and cable type	Application	Speed	Wavelenght [nm]	Maximum attenuation [dB/km]	OFL bandwith per TIA/EIA 455-204 and IEC 60793-1-41 [MHz x km]	High-performance EMB bandwith per TIA/EIA 455-220A and IEC 60793-1-49 [MHz x km]
TIA 492AAAB OM2 bend optimized	Multimode 50/125 µm	Horizontal Link Riser	≤ 1 Gb/s	850 1300	2.7 (2.5 typical) 0.7 (0.5 typical)	700 500	≥ 850 n/a
TIA 492AAAC OM3 bend optimized 850 nm Laser-optimized	Multimode 50/125 µm	Horizontal Link Riser Backbone Data Centre	≥ 10 Gb/s	850 1300	2.7 (2.5 typical) 0.7 (0.5 typical)	1500 500	≥ 2000 n/a
TIA 492AAAD OM4 bend optimized 850 nm Laser-optimized	Multimode 50/125 µm	Backbone Data Centre	≥ 10 Gb/s	850 1300	2.7 (2.5 typical) 0.7 (0.5 typical)	3500 500	≥ 4700 n/a

The fibre designation (OM1, OM2, OM3 and OM4) corresponds to the designation of ISO/IEC 11801 or EN 50173.
OM3 and OM4 can be realized only with 50/125 µm fibres.
OFL means Overfilled Launch (LED).
EMB means Effective Modal Bandwith (850 nm VCSEL Laser).

Multimode fibre link lenghts and data rates
Although fibre bandwidth is a critical factor in determining link length and data rate, it is not the only one. Transmitter and receiver characteristics are equally as important as fibre bandwidth in determining supportable link lengths at specified data rates.

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 OM2, OM3 and OM4 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.

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

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

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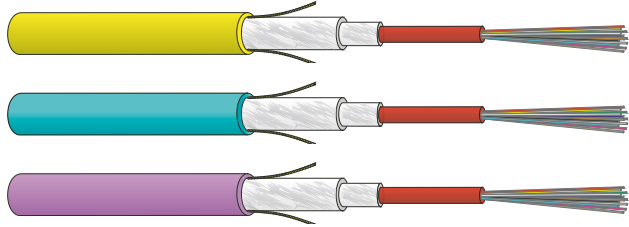
FO Indoor ZGGFR / J-B(ZN)BH
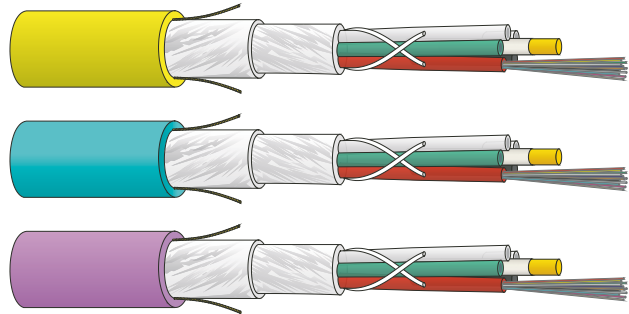
FO Indoor szGGFR / J-B(ZN)BH

FO Indoor ZGGFR / J-B(ZN)BH, up to 12 fibres

J-B(ZN)BH n x m Description		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
ZGGFR	1 x 4	4	1960310…Z	1960330…Z	1960360…Z
ZGGFR	1 x 6	6	1960570…Z	1960580…Z	1960590…Z
ZGGFR	1 x 8	8	1960320…Z	1960340…Z	1960370…Z
ZGGFR	1 x 12	12	1945630…Z	1960350…Z	1959740…Z

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

FO Indoor szGGFR / J-B(ZN)BH, 24-144 fibres

J-B(ZN)BH n x m Description		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
szGGFR	2 x 12	24	1945640…Z	1960530…Z	1960250…Z
szGGFR	4 x 12	48	1945660…Z	1960540…Z	1960260…Z
szGGFR	8 x 12	96	1960290…Z	1960550…Z	1960270…Z
szGGFR	12 x 12	144	1959680…Z	1960560…Z	1960280…Z

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

Subject to technical modification.

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

Metal-free, dry interstices,
rodent protection,
flame retardant,
in accordance with IEC 60332.1and IEC 60332.3 C
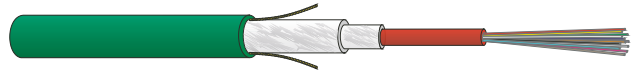
FO Universal U-DQ(ZN)BH 1 x n, ≤ 24 fibres
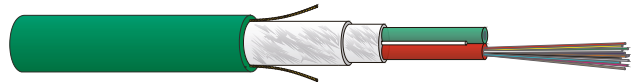
FO Universal U-DQ(ZN)BH 2 x 12, 24 fibres
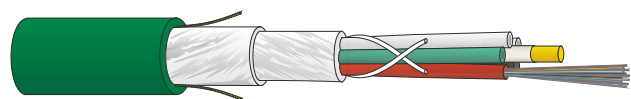
FO Universal U-DQ(ZN)BH 3 x n, 36-144 fibres

FO Universal U-DQ(ZN)BH, ≤ 24 fibres

U-DQ(ZN)BH n x m Description		Fibres number	Article No. E9/125 G.652.D BLO	Article No. E9/125 G.652.D	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal (1500 N)	1 x 4	4	–	1902030…Z	1859380…Z	1859890…Z	1927120…Z
FO Universal (1500 N)	1 x 6	6	–	1902040…Z	1864590…Z	1901120…Z	1933600…Z
FO Universal (1500 N)	1 x 8	8	–	1902050…Z	1863000…Z	1859590…Z	1873630…Z
FO Universal (1500 N)	1 x 12	12	1933140…Z	1900770…Z	1859350…Z	1863500…Z	1912510…Z
FO Universal (2800 N)	2 x 12	24	–	1900710…Z	1863560…Z	1864320…Z	1912520…Z
FO-Universal (3000 N)	1 x 12	12	–	1929700…Z	1929670…Z	1929680…Z	1929690…Z
FO Universal (3000 N)	1 x 24	24	1933370…Z	1873540…Z	1865950…Z	1917550…Z	1927130…Z
FO Universal-Hybrid (2800 N)	1x 12 E9 + 1x 12 G50*	24	–	–	1903780…Z	1901370…Z	1901240…Z

* 12 fibres E9 in the red loose tube, 12 fibres G50 in the green loose tube
When ordering please complete the article number with the Euroclass and packaging information (see Page 8).
For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

FO Universal U-DQ(ZN)BH, 36-144 fibres

U-DQ(ZN)BH n x m Description		Fibres number	Article No. E9/125 G.652.D BLO	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No. G50/125 OM4
FO Universal	3 x 12	36	1902070…Z	1864340…Z	on request	1926780…Z
FO Universal	4 x 12	48	1902080…Z	1872910…Z	1864860…Z	1912780…Z
FO Universal	5 x 12	60	1902090…Z	1906180…Z	1866420…Z	on request
FO Universal	6 x 12	72	1902100…Z	1873440…Z	1865390…Z	on request
FO Universal	8 x 12	96	1867470…Z	on request	1865400…Z	1927140…Z
FO Universal	10 x 12	120	1902110…Z	on request	1865360…Z	on request
FO Universal	12 x 12	144	1902120…Z	1866160…Z	1917100…Z	1927150…Z

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).
For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

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

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

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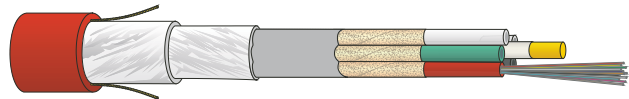
FO Universal wbGGFR Safety / U-DQ(ZN)BH

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

| U-DQ(ZN)BH 1 x m | | Fibres | Article No. | Article No. | Article No. | Article No. |
Description		number	E9/125 G.652.D	G50/125 OM2	G50/125 OM3	G50/125 OM4
ZGGFR Safety	1 x 4	4	187288	186363	190604	193447
ZGGFR Safety	1 x 6	6	191867	186639	191851	193448
ZGGFR Safety	1 x 8	8	on request	190621	on request	193449
ZGGFR Safety	1 x 12	12	190719	187293	191796	193450

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

| U-DQ(ZN)BH n x m | | Fibres | Article No. | Article No. | Article No. | Article No. |
Description		number	E9/125 G.652.D	G50/125 OM2	G50/125 OM3	G50/125 OM4
wbGGFR Safety	2 x 12	24	190223	187294	187360	193454
wbGGFR Safety	3 x 12	36	190224	on request	on request	193455
wbGGFR Safety	4 x 12	48	190225	192119	191191	193456
wbGGFR Safety	5 x 12	60	190226	on request	190605	193457

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

FO Outdoor ZGGT BL / A-DQ(ZN)B2Y
Basic Line

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

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

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

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

Non metallic, dry interstices,
water resistant, rodent protection
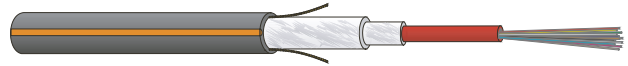
FO Outdoor ZGGT BL / A-DQ(ZN)B2Y, 1 x m, ≤ 24 fibres

FO Outdoor ZGGT HP / A-DQ(ZN)B2Y, 1 x m, ≤ 24 fibres
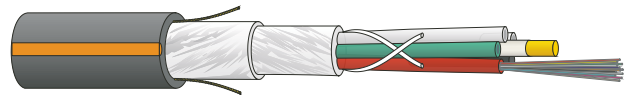
FO Outdoor wbGGT HP / A-DQ(ZN)B2Y, n x m, 12 - 288 fibres

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

A-DQ(ZN)B2Y 1 x m Description		Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No. G50/125 OM4
ZGGT Basic Line	1 x 2	2	on request	1900600…Z	on request	on request
ZGGT Basic Line	1 x 4	4	1912920…Z	1855570…Z	on request	on request
ZGGT Basic Line	1 x 6	6	1912560…Z	1912590…Z	1911880…Z	on request
ZGGT Basic Line	1 x 8	8	1865000…Z	on request	on request	on request
ZGGT Basic Line	1 x 12	12	1901920…Z	1864990…Z	1911900…Z	on request
ZGGT Basic Line	1 x 24	24	1901930…Z	1863650…Z	on request	on request

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

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

A-DQ(ZN)B2Y 1 x m Description		Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No. G50/125 OM4
ZGGT HighP	1 x 4	4	1901660…Z	1863200…Z	1911210…Z	on request
ZGGT HighP	1 x 6	6	1901670…Z	1864810…Z	1907470…Z	on request
ZGGT HighP	1 x 8	8	1901680…Z	1864800…Z	on request	on request
ZGGT HighP	1 x 12	12	1901690…Z	1859370…Z	1863610…Z	1926100…Z
ZGGT HighP	1 x 24	24	1901490…Z	1866600…Z	on request	1921670…Z

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

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

A-DQ(ZN)B2Y n x m Description			Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No G50/125 OM4
wbGGT5	HighP	1 x 12	12	1900590…Z	1866270…Z	1906510…Z	on request
wbGGT5	HighP	2 x 12	24	1867480…Z	1864370…Z	1903680…Z	on request
wbGGT5	HighP	3 x 12	36	1900580…Z	1864380…Z	on request	on request
wbGGT5	HighP	4 x 12	48	1873850…Z	1864390…Z	1903690…Z	on request
wbGGT5	HighP	5 x 12	60	1901710…Z	on request	on request	on request
wbGGT6	HighP	6 x 12	72	1901720…Z	1917820…Z	on request	on request
wbGGT8	HighP	8 x 12	96	1867600…Z	1903720…Z	on request	on request
wbGGT10	HighP	10 x 12	120	1901750…Z	on request	1926970…Z	on request
wbGGT12	HighP	12 x 12	144	1873940…Z	on request	1903110…Z	on request
wbGGT6	HighP	6 x 24	144	1907640…Z	on request	on request	on request
wbGGT8	HighP	8 x 24	192	1912700…Z	on request	on request	on request
wbGGT10	HighP	9 x 24	216	1906960…Z	on request	on request	on request
wbGGT12	HighP	12 x 24	288	1903250…Z	on request	on request	on request

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

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

FO Outdoor ZwbKWT BL / A-DQ(ZN)(SR)2Y
Basic Line

Central loose tube, water resistant,
corrugated steel tape, rodent proof
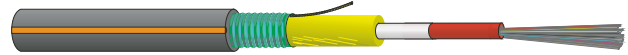
FO Outdoor ZwbKWT BL / A-DQ(ZN)(SR)2Y

FO Outdoor wbKWT HP / A-DQ(ZN)(SR)2Y
HighP

Dry interstices, water resistant,
corrugated steel tape, rodent proof

FO Outdoor wbKWT HP / A-DQ(ZN)(SR)2Y

FO Outdoor ZwbKWT BL / A-DQ(ZN)(SR)2Y

A-DQ(ZN)B2Y 1 x m Description		Fibres number	Article No. E9/125 G.652.D	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No. G50/125 OM4
ZwbKWT Basic Line	1 x 4	4	1902000…Z	1801710…Z	on request	on request
ZwbKWT Basic Line	1 x 6	4	1873770…Z	1842000…Z	1873890…Z	on request
ZwbKWT Basic Line	1 x 8	8	1902010…Z	1787320…Z	1900720…Z	on request
ZwbKWT Basic Line	1 x 12	12	1902020…Z	1801140…Z	1918060…Z	1926890…Z
ZwbKWT Basic Line	1 x 24	24	1903550…Z	1866300…Z	on request	on request

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

FO Outdoor wbKWT HP / A-DQ(ZN)(SR)2Y

A-DQ(ZN)B2Y n x m Description		Fibres number	Article No. E9/125 G.652D	Article No. G50/125 OM2	Article No. G50/125 OM3	Article No. G50/125 OM4
wbKWT5 HighP	2 x 12	24	1901840…Z	1807610…Z	on request	on request
wbKWT5 HighP	4 x 12	48	1901850…Z	on request	on request	on request
wbKWT5 HighP	5 x 12	60	1865900…Z	on request	on request	on request
wbKWT6 HighP	6 x 12	72	1906500…Z	on request	on request	on request
wbKWT6 HighP	4 x 24	96	1916980…Z	on request	on request	on request
wbKWT6 HighP	6 x 24	144	1911970…Z	on request	on request	on request

When ordering please complete the article number with the Euroclass and packaging information (see Page 8).

For the available Euroclasses and packagings please refer to the online data sheets on www.cabling.datwyler.com.

Subject to technical modification.

FIBRE OPTIC SOLUTIONS
Patch panels

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

19"/1U, unloaded

For the termination of fibre optic cables (breakout, loose tube) - maximum of 96 fibres.
Applicable with a wide range of front plates / connector systems (see accessories).

Description

Housing:	OV-T: metallic, with telescopic slides and locking mechanism
	OV-S: metallic, extractable drawer with locking mechanism
Rack mounting:	Depth-adjustable mounting of box (5 steps, maximum 50 mm)
	due to the adjustable 19" mounting brackets
Colour of mounting	
brackets (variants):	Similar to RAL 7035, similar to RAL 9005 or stainless steel
Capacity:	Up to 96 fibres
Strain relief:	With cable tie and screwed cable gland or cable distributor
Dimensions:	OV-T: 19"/1U, depth 254 mm
	OV-S: 19"/1U, depth 300 mm

Fibre optic patch panel OV-T, 19"/1U

Fibre optic patch panel OV-S, 19"/1U

Connection systems

ST, FC, SCD, SC, LSH, LCD (dependent on front plate)

Article No.	Description		Mounting brackets colour (similar to)	Note
416964	OV-T telescopic	1U	RAL 7035	without front plate
(on request)	OV-T telescopic	1U	RAL 9005	without front plate
415201	OV-S extractable	1U	RAL 7035	without front plate
415203	OV-S extractable	1U	RAL 9005	without front plate

Please order the front plate seperately.

Accessories

	Article No.	Description	Colour (similar to) / Material
	416951	Front plate for 12x SCD/LCQ	RAL 7035
	416952	Front plate for 24x SCD/LCQ	RAL 7035
	416953	Front plate for 24x SC, LSH or LCD*	RAL 7035
	416954	Front plate for 24x ST or FC/PC	RAL 7035
	417279	Front plate for 24x LCD (offset design)	RAL 7035
	417378	Front plate for 12x SCD/LCQ	RAL 9005
	417379	Front plate for 24x SCD/LCQ	RAL 9005
	417374	Front plate for 24x , LSH or LCD*	RAL 9005
	417377	Front plate for 24x ST or FC/PC	RAL 9005
	415310	Front plate for 24x LCD (offset design)	RAL 9005
	417550	Angled cable entry M25**	Steel
	417559	Angled cable entry M20**	Steel
	416994	Straight cable entry M20 + M25	Steel
	415308	Straight cable entry M20 + M25**	Steel
	418650	Straight cable entry 1x 20 mm + 2x 15 mm**	Steel
	418652	Angled cable entry 2x 15 mm**	Steel
	415208	Angled cable entry 2x M20**	Steel
	417857	Strain relief M20	Steel
	417858	Strain relief M25	Steel

* For the LCD Couplers we recommend rather the offset version (Article No. 417279 or 415310) due to the limited assessibility to the connectors for unplugging the patch cords.
** Pre-stamped cables entries can be opened as necessary.

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

- For the termination of fibre optic cables - maximum of 96 fibres
- Loaded with FO adapters, ready for splicing, with prepared pigtails
  (per 2 m, colour code: IEC 60304)
- Available with grey (RAL 7035), black (RAL 9005) or stainless steel front plate

Splice box OV-S, 19"/1U, extractable,
Example with 24 SCD adapters / 48 pigtails

Article No.	Description	Loaded with		Colour of front plate
415210	Splice box OV-S, extractable, 1U	6x LCD adapter, blue polymer housing	with ceramic sleeve and 12 LC pigtails 2m E09/125µm OS2	RAL 7035
415211	Splice box OV-S, extractable, 1U	6x LCD adapter, beige polymer housing	with ceramic sleeve and 12 LC pigtails 2m G50/125µm OM2	RAL 7035
415212	Splice box OV-S, extractable, 1U	6x LCD adapter, turqouise polymer housing	with ceramic sleeve and 12 LC pigtails 2m G50/125µm OM3	RAL 7035
415213	Splice box OV-S, extractable, 1U	6x LCD adapter, violet polymer housing	with ceramic sleeve and 12 LC pigtails 2m G50/125µm OM4	RAL 7035
415214	Splice box OV-S, extractable, 1U	12x LCD adapter, blue polymer housing	with ceramic sleeve and 24 LC pigtails 2m E09/125µm OS2	RAL 7035
415215	Splice box OV-S, extractable, 1U	12x LCD adapter, beige polymer housing	with ceramic sleeve and 24 LC pigtails 2m G50/125µm OM2	RAL 7035
415216	Splice box OV-S, extractable, 1U	12x LCD adapter, turqouise polymer housing	with ceramic sleeve and 24 LC pigtails 2m G50/125µm OM3	RAL 7035
415217	Splice box OV-S, extractable, 1U	12x LCD adapter, violet polymer housing	with ceramic sleeve and 24 LC pigtails 2m G50/125µm OM4	RAL 7035
415218	Splice box OV-S, extractable, 1U	24x LCD adapter, blue polymer housing	with ceramic sleeve and 48 LC pigtails 2m E09/125µm OS2	RAL 7035
415219	Splice box OV-S, extractable, 1U	24x LCD adapter, beige polymer housing	with ceramic sleeve and 48 LC pigtails 2m G50/125µm OM2	RAL 7035
415220	Splice box OV-S, extractable, 1U	24x LCD adapter, turqouise polymer housing	with ceramic sleeve and 48 LC pigtails 2m G50/125µm OM3	RAL 7035
415221	Splice box OV-S, extractable, 1U	24x LCD adapter, violet polymer housing	with ceramic sleeve and 48 LC pigtails 2m G50/125µm OM4	RAL 7035
415275	Splice box OV-S, extractable, 1U	24x LCQ adapter, blue polymer housing	with ceramic sleeve and 96 LC pigtails 2m E09/125µm OS2	RAL 7035
415299	Splice box OV-S, extractable, 1U	24x LCQ adapter, beige polymer housing	with ceramic sleeve and 96 LC pigtails 2m G50/125µm OM2	RAL 7035
415298	Splice box OV-S, extractable, 1U	24x LCQ adapter, turqouise polymer housing	with ceramic sleeve and 96 LC pigtails 2m G50/125µm OM3	RAL 7035
415295	Splice box OV-S, extractable, 1U	24x LCQ adapter, violet polymer housing	with ceramic sleeve and 96 LC pigtails 2m G50/125µm OM4	RAL 7035

All pigtails are coloured (in accordance with IEC 60304), stripped and stored in splice tray.
Black or stainless steel front plates as well as other couplers are available on request.

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

- For the termination of pre-assembled fibre optic cables - maximum of 96 fibres
- Loaded with a maximum of 12/24 FO adapters.

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

Article No.	Description	Loaded with		Colour of front plate
415250	Breakout box OV-S, extractable, 1U	6x LCD SM adapter, blue polymer housing	with ceramic sleeve	RAL 7035
415251	Breakout box OV-S, extractable, 1U	6x LCD MM adapter, beige polymer housing	with ceramic sleeve	RAL 7035
415252	Breakout box OV-S, extractable, 1U	6x LCD MM adapter, turqouise polymer housing	with ceramic sleeve	RAL 7035
415253	Breakout box OV-S, extractable, 1U	6x LCD MM adapter, violet polymer housing	with ceramic sleeve	RAL 7035
415254	Breakout box OV-S, extractable, 1U	12x LCD SM adapter, blue polymer housing	with ceramic sleeve	RAL 7035
415255	Breakout box OV-S, extractable, 1U	12x LCD MM adapter, beige polymer housing	with ceramic sleeve	RAL 7035
415256	Breakout box OV-S, extractable, 1U	12x LCD MM adapter, turqouise polymer housing	with ceramic sleeve	RAL 7035
415257	Breakout box OV-S, extractable, 1U	12x LCD MM adapter, violet polymer housing	with ceramic sleeve	RAL 7035
415258	Breakout box OV-S, extractable, 1U	24x LCD SM adapter, blue polymer housing	with ceramic sleeve	RAL 7035
415259	Breakout box OV-S, extractable, 1U	24x LCD MM adapter, beige polymer housing	with ceramic sleeve	RAL 7035
415260	Breakout box OV-S, extractable, 1U	24x LCD OM3, turqouise polymer housing	with ceramic sleeve	RAL 7035
415261	Breakout box OV-S, extractable, 1U	24x LCD OM4, violet polymer housing	with ceramic sleeve	RAL 7035
415207	Breakout box OV-S, extractable, 1U	24x LCQ SM adapter, blue polymer housing	with ceramic sleeve	RAL 7035
415278	Breakout box OV-S, extractable, 1U	24x LCQ MM adapter, beige polymer housing	with ceramic sleeve	RAL 7035
415280	Breakout box OV-S, extractable, 1U	24x LCQ MM adapter, turqouise polymer housing	with ceramic sleeve	RAL 7035
415296	Breakout box OV-S, extractable, 1U	24x LCQ MM adapter, violet polymer housing	with ceramic sleeve	RAL 7035

Black or stainless steel front plates as well as other couplers are available on request.

Splicing accessories

Splice tray

Splice holder

Splice protection

Article No.	Description	PU
1411150	Splice tray without cover	1 pc.
1411151	Splice tray cover	1 pc.
1411152	Splice holder for up to 12 splices (crimp technology)	1 pc.
1411153	Splice holder for up to 6 splices (heat shrink technology)	1 pc.
418649	Splice protection (crimp technology)	1 pc.
1401581	Splice protection (shrink technology) 60 mm	100 pcs.
4000277	Splice protection (shrink technology) 45 mm	100 pcs.
1411154	Fibre strain relief for splice tray	1 pc.

Blank covers and shutters

Shutter for SC Duplex

Shutter for LC Duplex and SC Simplex

Blind covers: for ST/FC

for SC/LSH/LCD

for SCD/LCQ

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	turqouis	1 pc.
414496	Shutter for LCD or SC simplex	MM	polymer	violet	1 pc.
418596	Blind cover for SC/LSH/LCD (21.5 mm)				1 pc.
1414224	Blind cover for SCD /LCQ				1 pc.
1414225	Blind cover for ST/FC				1 pc.
418535	Self-tapping screw M 2.5 x 6 mm				50 pcs.
418599	Screws and nuts M2				50 pcs.

Fibre optic couplers

SC Duplex

ST

LC Duplex
with flange

LC Duplex
without flange

LC/APC Quad

Article No.	Coupler	Fibre type	Sleeve	Cover material	Colour	Mounting	2 pieces M2 screws	PU
1414886	ST	MM/SM	ceramic	metal		D hole		1 pc.
418506	SC/APC	SM	ceramic	polymer	green	flange	without	1 pc.
418507	SCD	MM	PB	polymer	beige	flange	without	1 pc.
418508	SCD	MM	ceramic	polymer	beige	flange	without	1 pc.
418509	SCD	MM	PB	polymer	turqouis	flange	without	1 pc.
418510	SCD	MM	ceramic	polymer	turqouis	flange	without	1 pc.
418534	SCD	MM	PB	polymer	violet	flange	without	1 pc.
418532	SCD	MM	ceramic	polymer	violet	flange	without	1 pc.
418511	SCD	SM	ceramic	polymer	blue	flange	without	1 pc.
418512	SCD/APC	SM	ceramic	polymer	green	flange	without	1 pc.
418513	LCD	MM	ceramic	polymer	beige	flange	without	1 pc.
418516	LCD	MM	ceramic	polymer	turqouis	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	turqouis	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	turqouis	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.
418521	SCD	MM	PB	metal		flange	yes	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.

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

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	SCD	G50/OM2	421151	421152	421153	421154	421155	421156	421157	421158	421159	421160
SCD	SCD	G62.5/OM1	421171	421172	421173	421174	421175	421176	421177	421178	421179	421180
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	ST	G50/OM2	421251	421252	421253	421254	421255	421256	421257	421258	421259	421260
SCD	ST	G62.5/OM1	421271	421272	421273	421274	421275	421276	421277	421278	421279	421280
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
SCD	LCD	G50/OM2	421351	421352	421353	421354	421355	421356	421357	421358	421359	421360
SCD	LCD	G62.5/OM1	421371	421372	421373	421374	421375	421376	421377	421378	421379	421380

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	SCD	G50/OM2	421351	421352	421353	421354	421355	421356	421357	421358	421359	421360
LCD	SCD	G62.5/OM1	421371	421372	421373	421374	421375	421376	421377	421378	421379	421380
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	ST	G50/OM2	422351	422352	422353	422354	422355	422356	422357	422358	422359	422360
LCD	ST	G62.5/OM1	422371	422372	422373	422374	422375	422376	422377	422378	422379	422380
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
LCD	LCD	G50/OM2	423351	423352	423353	423354	423355	423356	423357	423358	423359	423360
LCD	LCD	G62.5/OM1	423371	423372	423373	423374	423375	423376	423377	423378	423379	423380

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.

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	SCD	G50/OM2	421251	421252	421253	421254	421255	421256	421257	421258	421259	421260
ST	SCD	G62.5/OM1	421271	421272	421273	421274	421275	421276	421277	421278	421279	421280
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	ST	G50/OM2	422251	422252	422253	422254	422255	422256	422257	422258	422259	422260
ST	ST	G62.5/OM1	422271	422272	422273	422274	422275	422276	422277	422278	422279	422280
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/OM2	422351	422352	422353	422354	422355	422356	422357	422358	422359	422360
ST	LCD	G62.5/OM1	422371	422372	422373	422374	422375	422376	422377	422378	422379	422380

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
SC	G50/OM2	421161	421162
SC	G62.5/OM1	421181	421182
ST	E09/OS2	422221	422222
ST	G50/OM4	422244	422245
ST	G50/OM3	422241	422242
ST	G50/OM2	422261	422262
ST	G62.5/OM1	422281	422282
LC	E09/OS2	423321	423322
LC	G50/OM4	423348	423349
LC	G50/OM3	423341	423342
LC	G50/OM2	423361	423362
LC	G62.5/OM1	423381	423382

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

Connector termination: Optical performance values

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

ST   LC

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

MTP®/MPO   SC

Connector	IL [dB] typical	IL [dB] maximum	RL [dB] typical	RL [dB] minimum	Grade (IEC 61755)
MM	0.15	0.3	35	30	better than Bm2m
SM	0.15	0.3	55	50	better than B2
SM/APC	0.15	0.3	70	65	better than B1
MTP®/MPO MM	0.1	0.35	25	20	better than Bm2m
MTP®/MPO SM	0.1	0.35	65	60	better than C1

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

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

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

Wiring of a FO Duplex patch cable A to B

A   B
B   A

MTP® is a registered brand name of US Conec.

FIBRE-OPTIC TRUNKS

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

Trunk termination
- Up to 144 fibres, with all current FO connectors
- After the divider (screwable) each single fibre
  is protected by aramide yarn and has its own sheath
- More than 48 fibres: comes with 3-step (cascaded) fibre distribution
- 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 FO connector termination on one side only)

Number of fibres	Multimode connector types				Single-mode connector types					
	ST	SC	LC	LSH	ST	SC	LC	LSH	SC/APC	LSH/APC
4	1406098	1406421	416601	417131	417218	1407244	415096	417219	415001	417222
6	1407718	1407658	415018	417213	1407719	1407778	415014	415010	417221	415006
8	1406758	1407777	415028	417214	1405818	1410923	417132	417220	415002	417223
12	1406403	1406794	415019	417215	1407720	1407035	415015	415011	415003	415007
24	1406780	1408597	415020	417216	1408529	1406242	415016	415012	415004	415008

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

Attention: Please order the breakout cable seperately - according to your individual needs!
When ordering a trunk cable please ensure that the specified length of the trunk cable is defined by the length of the longest single-fibre cable! This means: The total length of the trunk cable is the length of the cable between the two splits plus the additional lengths of the longest single-fibre cable on both sides. You can find the lengths of the single-fibre elements in the installation manual on the Datwyler website.

FLEXIBLE TRUNKS

Length determination & design
of pre-assembled FO trunks

Divider

Fibre-optic connector
(single fibre) with labelling

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

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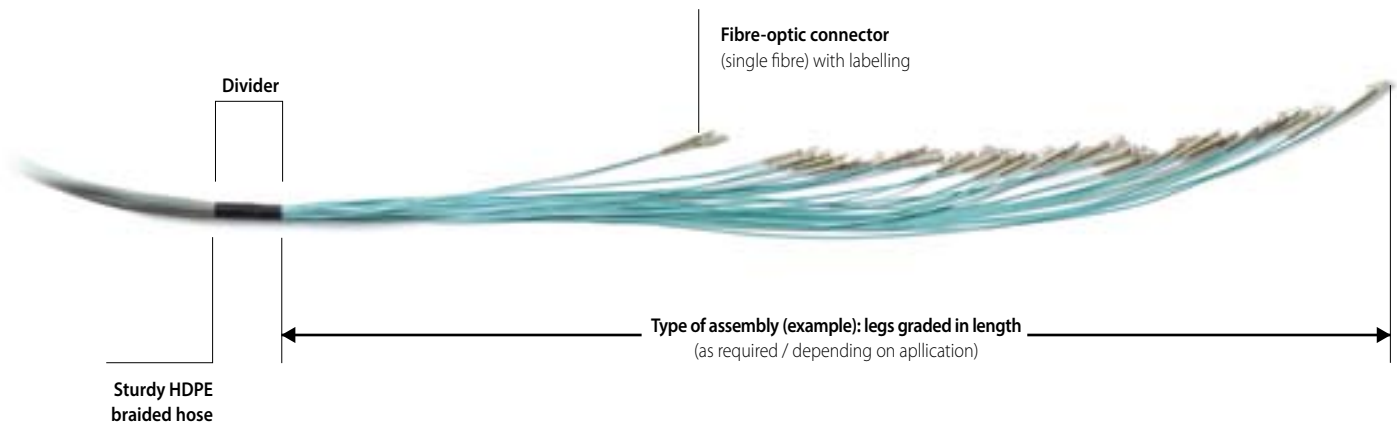
Description
A Datwyler FO flexible trunk consists of up to 24 single fibre cables (per 2.0 mm) that are combined in a sturdy HDPE braided hose and have pre-assembled connectors on both ends. FO flexible trunks come in customized lengths and gradations.
This solution is suitable especially for data centre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

Rack A　　　　**Rack B**

fixing point

A

B

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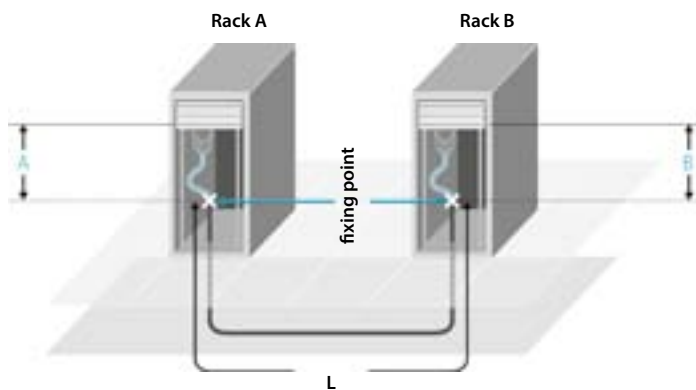
Length definition
The following criteria are decisive for all pre-assembled Datwyler FO trunks:

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

HIGH DENSITY PATCH SOLUTION

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

The modular High Density Patch Solution (HDPS) is the ideal solution for fibre optic data networks of all kinds and sizes, in particular in data centres. Thanks to its high-quality construction and great flexibility, it can meet practically any challenge that the market can throw at it.

The HDPS modular panel can be equipped with up to 144 fibres per rack unit using preassembled HDPS MTP cassettes. It offers the highest port density currently available for space-saving installations. The solution can also be scaled to match the user's needs (pay-as-you-grow). The modular design minimises disruption in the rack as the HDPS panel can be separated into three horizontal patch segments, from which each individual segment can be pulled out independently and maintained.

Furthermore HDPS MTP cassettes can be taken out, maintained and reinserted very easily from the front as well as from the back of the rack.

It is a solution that allows provision for future growth. Each panel has up to 12 cassettes, so it is possible to reserve sufficient slots for future expansions.

DATWYLER

PATCH PANEL

HDPS modular panel, 19"/1U
to take 12 HDPS MTP cassettes

- Sturdy metal housing with base, upper cover and front 19"/1U mounting brackets
- Pre-assembled with 6 sliding support frames – each of which can take 2 pre-terminated HDPS MTP cassettes
- The hinged front plate can be dropped down. It allows for port labelling on the reverse
- The panel can be used as a high-density solution for up to 72 duplex ports (144 fibres) in a single rack unit (1U)
- It will accept up to 12 pre-terminated HDPS MTP cassettes which are used to connect to pre-assembled LCD or MTP® trunk or breakout cables or fibre optic cables which are spliced in-situ
- Dimensions (W x H x D): 483 x 44.4 x 500 mm
- Can be combined with various blanking panels and management panels from the Datwyler range

Article No.	Description	Colour	PU
240691	HDPS modular panel, 19"/1U (delivery without cassettes)	black	1 pc.

CASSETTES

HDPS MTP cassettes, 1x MTP to 6x LCD
for HDPS modular panel, for OM3, OM4, OS2 fibre

- Polycarbonate (PC) housing with aluminium cover
- Front panel equipped with 6 LC duplex adapters (ceramic sleeves)
- At the rear each HDPS cassette has 1 MTP Elite® coupler (12F) which is routed to the front adapters by way of an internal fanout (High P) and integrated fibre management
- Can be easily inserted into one of the panel's sliding support frames
  The sliding hardware with guide handle (at the rear) allow for easy installation and maintenance
- Suitable for all high-performance applications with duplex signals particularly in the data centre environment
- Used to accept pre-assembled MTP trunk cables – for quick and simple installations
- Packing densities of up to 144 fibres on 1U are achieved
- Assembled to a very high quality – guarantees optimum values for optical performance (IL/RL)
- Delivery inclusive of test reports for fanout
- Dimensions (W x H x D): 91 x 12 x 163 mm

Article No.	Description	Colour	PU
240695	HDPS MTP cassette, 12F, 1x MTP to 6x LCD /PC, OM3	black	1 pc.
240696	HDPS MTP cassette, 12F, 1x MTP to 6x LCD /PC, OM4	black	1 pc.
240693	HDPS MTP cassette, 12F, 1x MTP to 6x LCD /PC, OS2 (G.652.D)	black	1 pc.
240694	HDPS MTP cassette, 12F, 1x MTP to 6x LCD /APC, OS2 (G.652.D)	black	1 pc.

MTP® and MTP Elite® are registered brand names 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.

DATWYLER   55

FUTURE-PROOF CABLING SOLUTIONS

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
Multifibre MTP Elite® 0° PC (multimode)	Grade B	0.15	0.3	≥ 40	≥ 35
Multifibre MTP Elite 8° APC (single-mode)	Grade B	0.1	0.3	≥ 70	≥ 65
Single-fibre LCD Uniboot 0° PC (multimode)	Grade B	0.1	0.25	≥ 40	≥ 35
Single-fibre LCD Uniboot 8° APC (single-mode)	Grade B	0.1	0.25	≥ 75	≥ 65

FIBRE OPTIC CHANNEL CONFIGURATION OPTIONS

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

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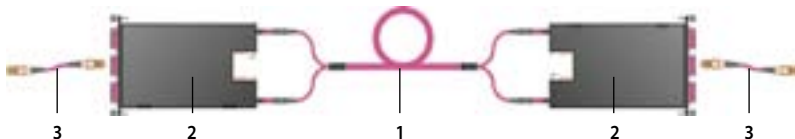
Two FO-DCS plug-in modules are interconnected by a thin mini breakout cable MTP-MTP.
For all known Duplex applications up to 25G Ethernet or up to 32G Fiber Channel.

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

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

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

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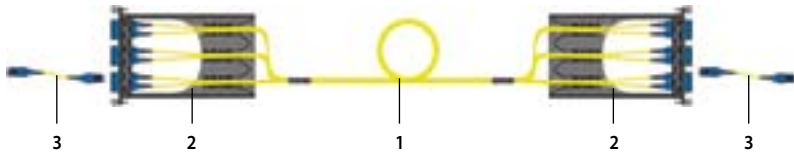
Two FO-DCS splice plug-in modules are interconnected by a thin FO Universal cable with LCD connectors.
For all known Duplex applications up to 25G Ethernet or 16G Fiber Channel.

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

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

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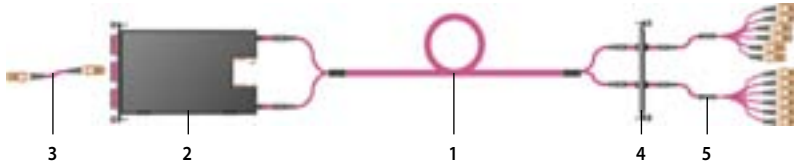
One FO-DCS plug-in module is connected to two FO-DCS fanout cables (MTP® on LCD Uniboot) by a thin FO-DCS mini breakout cable MTP-MTP for a direct link between the active ports (e.g. ports of a SAN switch). For all well-known Duplex applications such as 10G and 25G Ethernet or 16G and 32G Fiber Channel.

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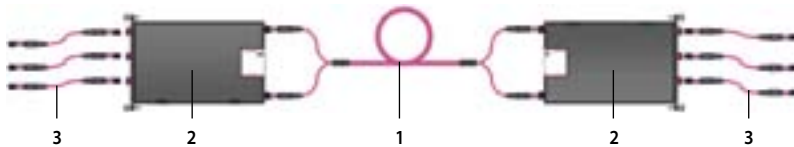
Two FO-DCS converter plug-in modules are interconnected by a FO-DCS mini breakout cable MTP-MTP.
For threee 40G, NG100G, PSM4, PLR4 or 64GFC links.

Part	Level	Description	Remarks
1	High-performance	Mini Breakout cable MTP-MTP, type A or type C	12, 24, 48, 72, 96 or 144 fibres
2	High-performance	Converter plug-in module, 3U/7HP, 24F, 2x MTP on 3x MTP	24 fibres (2x 12 on 3x 8 fibres)
3	High-performance	Patch cable MTP-MTP	Polarity: type A, B or C, 12 fibres

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

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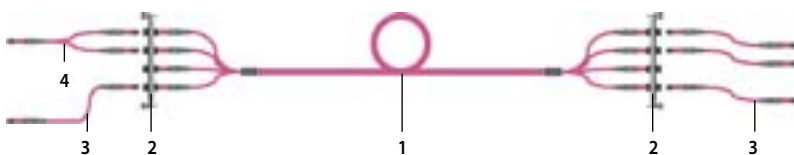
The FO-DCS plug-in modules in subracks are replaced by FO-DCS front plates with MTP adapters.
The high-performance FO-DCS mini-breakout cables MTP-MTP can continue to be used.

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

MTP® is registered brand name of US Conec

SUBRACKS & PATCH PANELS

FO-DCS modular subracks, 19"

- Pre-assembled with horizontal guide rails - can be modularly fitted
- Takes 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

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.

FO-DCS modular panels, 19"

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

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

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

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

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

Variants in Aluminium black available on request.

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

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

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

Variants in Aluminium black available on request.

FO-DCS management panel, 19"/1U

- For the proper routing of fibre optic patch cables in all 19" IT racks and cabinets
- Equipped with 6 cable routing elements and detachable front plate

Article No.	Description	Material / Colour	PU
470544	FO-DCS management panel, 19"/1U, left-side routing	Aluminium, anodised	1 pc.
470545	FO-DCS management panel, 19"/1U, right-side routing	Aluminium, anodised	1 pc.
470546	FO-DCS management panel, 19"/1U, left / right-side routing	Aluminium, anodised	1 pc.
470644	FO-DCS management panel, 19"/1U, left-side routing	Aluminium, black	1 pc.
470645	FO-DCS management panel, 19"/1U, right-side routing	Aluminium, black	1 pc.
470646	FO-DCS management panel, 19"/1U, left / right-side routing	Aluminium, black	1 pc.
470554	Labelling strip for FO-DCS management panel, 420 x 12 mm		1 pc.
4000140	Hook-and-loop tape, 19 mm (1 pc. = 10 m roll)		1 pc.

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. with black PC front panel	Article No. with anodised Alu front panel	Description	PU
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.

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

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

Article No. with 6x LCD	Article No. with 6x LCQ	Description	PU
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.
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.

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. with black PC front panel	Description	PU
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. with black PC front panel	Article No. with anodised Alu front panel	Description	PU
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.
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. black PC	Article No. anodised alu	Description		PU
571550		FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A turquoise	1 pc.
571551		FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A magenta	1 pc.
571552		FO-DCS front panel, 2x MTP, 3U/7HP	2x MTP type A black	1 pc.
571556		FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A turquoise	1 pc.
571557		FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A magenta	1 pc.
571558	470550	FO-DCS front panel, 4x MTP, 3U/7HP	4x MTP type A black	1 pc.
571560		FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A turquoise	1 pc.
571561		FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A magenta	1 pc.
571562	470551	FO-DCS front panel, 8x MTP, 3U/7HP	8x MTP type A black	1 pc.
571599		Labelling sheet A4, perforated (blank)		10 pcs.

PATCH AND FANOUT CABLES

FO-DCS Indoor cable MTP-MTP, 12-144 fibres

- Sturdy, metal-free indoor cables - provide enhanced crush resistance and rodent protection
- Compact, metal-free cable construction with FR/LS0H 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),
  in protective sleeves, breakout separation is effected with a divider housing
- 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-DCS indoor cable MTP-MTP, 12F OM4	heather violet	by the metre
571752	571757	FO-DCS indoor cable MTP-MTP, 2x 12F OM4	heather violet	by the metre
571753	571758	FO-DCS indoor cable MTP-MTP, 4x 12F OM4	heather violet	by the metre
571754	571759	FO-DCS indoor cable MTP-MTP, 8x 12F OM4	heather violet	by the metre
571755	571760	FO-DCS indoor cable MTP-MTP, 12x 12F OM4	heather violet	by the metre
571761	571766	FO-DCS indoor cable MTP-MTP, 12F OS2 (G.652.D BLO)	yellow	by the metre
571762	571767	FO-DCS indoor cable MTP-MTP, 2x 12F OS2 (G.652.D BLO)	yellow	by the metre
571763	571768	FO-DCS indoor cable MTP-MTP, 4x 12F OS2 (G.652.D BLO)	yellow	by the metre
571764	571769	FO-DCS indoor cable MTP-MTP, 8x 12F OS2 (G.652.D BLO)	yellow	by the metre
571765	571770	FO-DCS 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.

FO-DCS universal cable MTP-MTP, 12-48 fibres

- Sturdy, metal-free cables - provide enhanced crush resistance and rodent protection
- Compact, metal-free cable construction with FR/LS0H 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),
  in protective sleeves, breakout separation is effected with a divider housing
- 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-DCS universal cable MTP-MTP, 12F, OM3	turquoise	by the metre
570651	570654	FO-DCS universal cable MTP-MTP, 12F, OM4	heather violet	by the metre
570661	570664	FO-DCS universal cable MTP-MTP, 12F, OS2 (G.652.D)	yellow	by the metre
570642	570645	FO-DCS universal cable MTP-MTP, 2x 12F, OM3	turquoise	by the metre
570652	570655	FO-DCS universal cable MTP-MTP, 2x 12F, OM4	heather violet	by the metre
570662	570665	FO-DCS universal cable MTP-MTP, 2x 12F, OS2 (G.652.D)	yellow	by the metre
570643	570646	FO-DCS universal cable MTP-MTP, 4x 12F, OM3	turquoise	by the metre
570653	570656	FO-DCS universal cable MTP-MTP, 4x 12F, OM4	heather violet	by the metre
570663	570666	FO-DCS 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.

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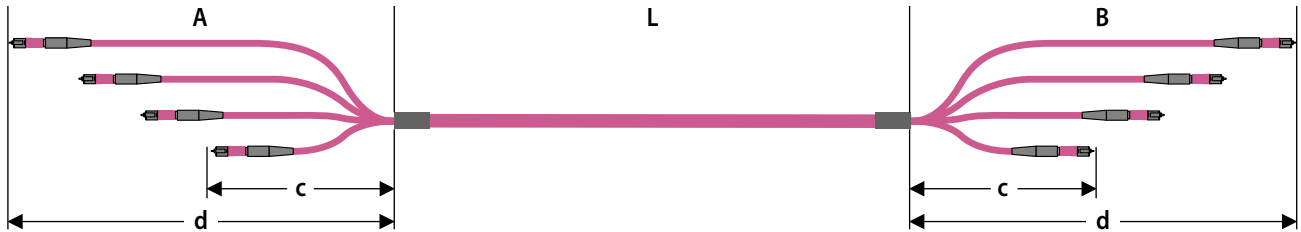
L = Length between dividers / fixing points (= purchase order length)
A = Type of assembly side A: as required / depending on application; legs: graded in length (see example image) or of equal length
B = Type of assembly side B: as required / depending on application; legs: graded in length (see example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

Length of shortest leg: 0.45 m minimum for 1U panel, 0.75 m minimum for 4U subrack

Length of longest leg: $d = c + n \times 8$ cm
Maximum leg length: 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

FO-DCS patch cables MTP-MTP, 12 fibres

- Thin and flexible patch cable (round cable: 3.0 mm Ø) with 12 fibres, OM3 or OM4
- Low fire load due to its halogen-free flame-retardant LS0H sheath
- Available with up to 5 m standard lengths (other lengths on request)
- Sticker labelling at both cable ends
- Assembled using MTP connectors (female) at both cable ends
- Polarisation modes can be type 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

FO-DCS patch cable LCD-LCD, 2 fibres

- Compact cable construction (round cable: 2.2 mm Ø)
  with FR/LS0H cable sheath and 2 fibres, OM3, OM4 or OS2,
  standard: G.652.D (G.657.A1 or G.657.A2 on request)
- Available with up to 10 m standard lengths (other lengths on request)
- Sticker labelling at both cable ends
- Assembled using LCD Uniboot connectors at both cable ends
- Available with straight polarity (A to A) or cross polarity (A to B)
- Comes with test reports on all connectors

Description	Colour	Type	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

Length [m] / Article No.

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

Description
- For the insertion of up to 6 RJ45 modules
- Delivery without modules

Plug-in module for
6 RJ45 Keystone modules

Article No.	Description	Colour (similar to)	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.

FO 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.
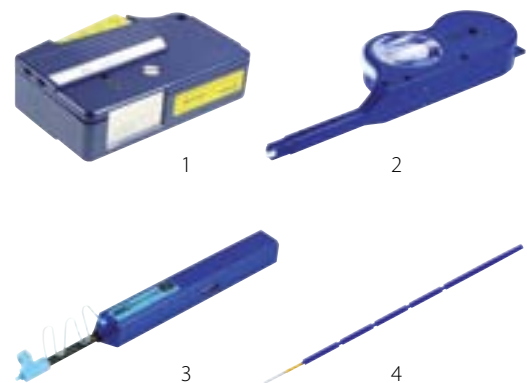
Article No.	Fig.	Description	Items cleaned / method	PU
1411400	1	Reel Cleaner	FO connector	1 pc.
1411401	-	Replacement reels for Reel Cleaner		6 pcs.
415627	2	FO connector cleaning device for MPO/MTP	FO connector and through adapter	1 pc.
415628	3	FO connector cleaning device for 2.5 mm	FO connector 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.

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, PDU´s, cable management kits, shelves, faceplates and individual doors to coordinate with the cabinets, as well as a lot more besides.

DATWYLER

IT RACKS AND ACCESSORIES

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

SERVER RACKS

Server Racks Standard DSRS
19"/ 42U

with perforated front and rear doors

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

Server Rack Standard DSRS,
42U, 800 x 1000 mm
(without plinths)

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). RAL 7035 (light grey): on request
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 (easy to change)
Side panels:	Removable, locks with universal key
Delivery:	Fully assembled and packed, including installation instructions. Comes with pre-installed flat earthing kit and 28 mounting kits. Plinths, fan ventilation units, castors, rack baying kits, etc: optional (see rack accessories).

Article No.	Description	Load kg	Weight kg	Dimensions [HxWxD]	Colour (similar to)
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

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

NETWORK RACKS

Network Racks Standard DNRS
19"/ 21U, 27U, 33U, 42U and 48U

with glass front door & steel rear door

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). RAL 7035 (light grey): on request
Front door:	With tinted security 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 (easy to change)
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 mounting kits (screws, cage nuts, washers). Plinths, fan ventilation units, castors, rack baying kits, etc: optional (see rack accessories).

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

Article No.	Description	Load kg	Weight kg	Dimensions [HxWxD]	Colour (similar to)
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.

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 installations, 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

with glass front door & steel rear door

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

Application
The Datwyler Wall-Mount Racks DWMR are designed to accept
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: 9U (491 mm), 12U (624 mm), 15U (758 mm), 18U (891 mm)
	Width: 600 mm
	Depth (usable depth): 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); RAL 9005 (black): available on request
Front door:	With tinted security glass and
	round lock, universal key 333,
	up to 180° aperture angle,
	door can be hinged right or left (easy to change)
Rear panel:	Removable, with 150 × 56 mm knock-out panel
	and pre-punched holes for wall-mount installation
	(cabinet can also be installed without rear panel)
Standard configuration:	1 pair of adjustable 19-inch' vertical profiles with U label,
	2 removable side panels, each with universal lock,
	tinted security glass door with universal round lock,
	pre-installed flat earthing kit,
	16 mounting sets: 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 (similar to)
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
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

ACCESSORIES

Cable management	Article No.	Description	Reference	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
		Cable bracket metal, vertical cable management			
	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
		Vertical cable manager with plastic duct	800 mm		
	195235	15U, 80 x 60 mm	wide DNRS	black, RAL 9005	1
	195237	33U, 80 x 60 mm		black, RAL 9005	1
	195239	21U, 80 x 60 mm		black, RAL 9005	1
	195241	27U, 80 x 60 mm		black, RAL 9005	1
	195243	42U, 80 x 60 mm		black, RAL 9005	1
		Holder for vertical cable manager	800 mm		
	195236	for 15U, 80 mm (Article No. 195235)	wide DNRS	black, RAL 9005	2
	195238	for 33U, 80 mm (Article No. 195237)		black, RAL 9005	2
	195240	for 21U, 80 mm (Article No. 195239)		black, RAL 9005	2
	195242	for 27U, 80 mm (Article No. 195241)		black, RAL 9005	2
	195244	for 42U, 80 mm (Article No. 195243)		black, RAL 9005	2

Panels & Plates	Article No.	Description	Reference	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. 195086)	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
	105064	5U		black	5
	105068	5U		light grey	5
	195230	19" vented panel, with brush, for front to rear cabling, minimalizes by-pass airflow through the brush. Sheet steel, powder coated, screwable, without mounting kits.		black	1

ACCESSORIES

Plinths	Article No.	Description	Reference	Colour	PU
		Plinth corner set, 4 pcs., height: 100 mm, incl. mounting kit	all racks		
	195046			black	1 set
	195053			light grey	1 set
		Heavy-load plinth corner set, 4 pcs., height: 100 mm, incl. mounting kit	all racks		
	195047			black	1 set
	195054			light grey	1 set
		Plinth panel set, 4 pcs., non-perforated, height: 100 mm			
	195107	for 600 x 600 mm plinth	DNRS	black	1 set
	195048	for 600 x 800 mm plinth	DNRS	black	1 set
	195492	for 600 x 1000 mm plinth	DSRS	black	1 set
	195049	for 600 x 1200 mm plinth (comes with additional central support)	DSRS	black	1 set
	195050	for 800 x 800 mm plinth	DNRS	black	1 set
	195051	for 800 x 1000 mm plinth	DSRS	black	1 set
	195108	for 800 x 1200 mm plinth	DSRS	black	1 set
	195109	for 600 x 600 mm plinth	DNRS	light grey	1 set
	195055	for 600 x 800 mm plinth	DNRS	light grey	1 set
	195491	for 600 x 1000 mm plinth	DSRS	light grey	1 set
	195056	for 600 x 1200 mm plinth (comes with additional central support)	DSRS	light grey	1 set
	195057	for 800 x 800 mm plinth	DNRS	light grey	1 set
	195058	for 800 x 1000 mm plinth	DSRS	light grey	1 set
	195110	for 800 x 1200 mm plinth	DSRS	light grey	1 set

Fan ventilation	Article No.	Description	Reference	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	all racks	black	1 set
	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
		19"/1U PDU basis kit	all racks	black	1
	195081	9 Schuko sockets, with 19" mounting brackets, without switch			
	195145	9 UTE sockets, with 19" mounting brackets, without switch			

ACCESSORIES

Shelves	Article No.	Description	Reference	Colour	PU
		19" shelves, 2 pcs., 20 kg load capacity per shelf quick fastening with two brackets	all racks		
	195148	1U, 250 mm depth		light grey	1 set
	195161	1U, 350 mm depth		light grey	1 set
	195162	1U, 450 mm depth		light grey	1 set
	195163	1U, 550 mm depth		light grey	1 set
	195164	1U, 650 mm depth		light grey	1 set
	195165	1U, 750 mm depth		light grey	1 set
	195147	1U, 250 mm depth		black	1 set
	195082	1U, 350 mm depth		black	1 set
	195083	1U, 450 mm depth		black	1 set
	195084	1U, 550 mm depth		black	1 set
	195085	1U, 650 mm depth		black	1 set
	195086	1U, 750 mm depth		black	1 set
		19" telescopic shelves, 2 pcs., 25 kg load capacity per shelf, incl. telescopic slides	all racks		
	195166	2U, 450 mm depth		light grey	1 set
	195167	2U, 550 mm depth		light grey	1 set
	195168	2U, 650 mm depth		light grey	1 set
	195087	2U, 450 mm depth		black	1 set
	195088	2U, 550 mm depth		black	1 set
	195089	2U, 650 mm depth		black	1 set
	195182	Supp. bracket for shelves - short (according to combination rack/shelf)			1 pair
	195183	Supp. bracket for shelves - long (according to combination rack/shelf)			1 pair

Rack lighting	Article No.	Type	Dimensions	Voltage [V]	Colour	PU
	280502	L 19" 1U 230V / 8W S DC 3m GR	448 x 54.5 x 26 mm	230 V AC	light grey	1
	280503	L 19" 1U 230V / 8W S DC 3m BK	448 x 54.5 x 26 mm	230 V AC	black	1
	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
	280500	LED 19" 1U 110-240V / 7.2W S DC 3m GR	448 x 54.5 x 26 mm	110-240 V AC	light grey	1
	280501	LED 19" 1U 110-240V / 7.2W S DC 3m BK	448 x 54.5 x 26 mm	110-240 V AC	black	1
	280510	BL 19" 1U Frame GR	448 x 42 x 5 mm	-	light grey	1
	280511	BL 19" 1U Frame BK	448 x 42 x 5 mm	-	black	1
	280506	LED 350mm 230V /11.5W S DC SK ALU	350 x 92 x 46 mm	230 V AC	aluminum	1
	280507	LED 350mm 230V / 11.5W S DC MS 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

Various	Article No.	Description	Reference	Colour	PU
	190090	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
	195092	Mounting kit, 100 screws, nuts and washers	all racks		1 set
	195093	Rack baying kit for baying 2 racks with side panels together	DSRS		1 set

LONG-TERM SECURITY

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

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

DATWYLER SYSTEM WARRANTY

Certified installers can offer a Datwyler warranty for the installed copper and fibre optic cabling systems:
normally for 25 years, but this can be extended depending on project criteria.
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. Native speaker as contact person
. Representatives in 70 countries
. Excellent market knowledge and
  understanding of market conditions
. Familiar with the local variances

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