

HIGH-DENSITY DATA CENTRE SOLUTION

NEW

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

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

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

A Datwyler HD-DCS modular solution offers this network flexibility, a great scalability in the smallest space, saves rack space and enables intelligent connection configurations. HD-DCS is the ideal solution for fiber optic data networks, especially in data centres. HD-DCS modules are particularly suitable for all high-density and high-performance applications with duplex signals. With these modules, a packing density of up to 1,152 fibres per 1U can be achieved (MTP₁₂).

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

HIGH-DENSITY DATA CENTRE SOLUTION

Patch panels and cassettes

PATCH PANEL

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



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

Allows for variable, scalable port densities from 48 up to 96 ports (LCD and MPO/MTP®).
Up to 192 fibres (with LCD) or 1152 fibres (with MTP₁₂) per height unit.

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

CASSETTES

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

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



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

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

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

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



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

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

HIGH-DENSITY DATA CENTRE SOLUTION

Cassettes

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

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

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



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

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

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

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



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

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

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

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



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

HIGH-DENSITY DATA CENTRE SOLUTION

Cassettes

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

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

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

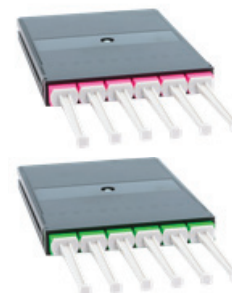


Article No.	Description	Colour	PU
473541	HD-DCS BO module, 24x LCD/PC, OM4	black	1 pc.
473545	HD-DCS BO module, 24x LCD/PC, OS2	black	1 pc.
473547	HD-DCS BO module, 24x LCD/APC, OS2	black	1 pc.

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

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

A packing density of 864 fibres (MTP₁₂) on 1U can be achieved with this module type.



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

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

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

A packing density of 576 fibres (MTP₁₂) on 1U can be achieved with this module type.



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

HIGH-DENSITY DATA CENTRE SOLUTION

Cassettes and accessories

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

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

A packing density of 1,152 fibres (MTP₁₂) on 1U can be achieved with this module type.



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

ACCESSORIES

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

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

HD-DCS patch cable management set 0U includes the following preassembled parts:

- 4 cable guides
- 4 label plates
- 4 label plate covers
- 4 paper labels (preprinted)



Application example

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

HIGH-DENSITY DATA CENTRE SOLUTION

Accessories

HD-DCS Blind plates for HD-DCS modular Panel

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



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

HD-DCS Cable fixation base for HD-DCS modular Panel

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



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

HD-DCS Snap-on fixation clip for HD-DCS modular Panel

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



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

Cleaning tools

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HIGH-DENSITY DATA CENTRE SOLUTION

Patch and fanout cables

PATCH AND FANOUT CABLES

HD-DCS Indoor cables, MTP

12-144 fibres, OM4 or OS2

Compact, metal-free cable construction with FR/LSZH cable sheath and 12 to 144 fibres. OM4 or OS2 versions with Euroclass D_{ca} (C_{ca} or B2_{ca} available on request).

Sticker labelling at both cable ends.

Project-specific length of individual cables („legs“): standard 0.55 m, max. 4.0 m.

Leg separation effected with a divider housing.

Individual cables are assembled using MTP® connectors with high-performance 12-fibre Elite® ferrules (MTP₈/MTP₂₄ available on request).

Push-pull tabs included.

Standard connectivity methods: type A or C (other types available on request).

Cables fitted with protective sleeves at both ends.



Article No. type A	Article No. type C	Description	Cable sheath colour	PU
474000	474010	HD-DCS indoor cable 1x MTP - 1x MTP, 12F OM4	heather violet	by the metre
474001	474011	HD-DCS indoor cable 2x MTP - 2x MTP, 24F OM4	heather violet	by the metre
474002	474012	HD-DCS indoor cable 4x MTP - 4x MTP, 48F OM4	heather violet	by the metre
474004	474014	HD-DCS indoor cable 8x MTP - 8x MTP, 96F OM4	heather violet	by the metre
474005	474015	HD-DCS indoor cable 12x MTP - 12x MTP, 144F OM4	heather violet	by the metre
474040	474050	HD-DCS indoor cable 1x MTP - 1x MTP, 12F OS2	yellow	by the metre
474041	474051	HD-DCS indoor cable 2x MTP - 2x MTP, 24F OS2	yellow	by the metre
474042	474052	HD-DCS indoor cable 4x MTP - 4x MTP, 48F OS2	yellow	by the metre
474044	474054	HD-DCS indoor cable 8x MTP - 8x MTP, 96F OS2	yellow	by the metre
474045	474055	HD-DCS indoor cable 12x MTP - 12x MTP, 144F OS2	yellow	by the metre

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

HD-DCS Breakout cables, MTP

12-144 fibres, OM4 or OS2

Compact, metal-free cable construction with FR/LSZH cable sheath and 12 to 144 fibres. OM4 or OS2 versions with Euroclass D_{ca} (C_{ca} or B2_{ca} available on request).

Sticker labelling at both cable ends.

Project-specific length of individual cables („legs“): standard 0.55 m, max. 4.0 m.

Individual cables are assembled using MTP® connectors with high-performance 12-fibre Elite® ferrules (MTP₈/MTP₂₄ available on request).

Push-pull tabs included.

Standard connectivity methods: type A or C (other types available on request).

Cables fitted with protective sleeves at both ends.



Article No. type A	Article No. type C	Description	Cable sheath colour	PU
475000	475010	HD-DCS Breakout cable 1x MTP - 1x MTP	heather violet	by the metre
475001	475011	HD-DCS Breakout cable 2x MTP - 2x MTP	heather violet	by the metre
475002	475012	HD-DCS Breakout cable 4x MTP - 4x MTP	heather violet	by the metre
475004	475014	HD-DCS Breakout cable 8x MTP - 8x MTP	heather violet	by the metre
475005	475015	HD-DCS Breakout cable 12x MTP - 12x MTP	heather violet	by the metre
475040	475050	HD-DCS Breakout cable 1x MTP - 1x MTP	yellow	by the metre
475041	475051	HD-DCS Breakout cable 2x MTP - 2x MTP	yellow	by the metre
475042	475052	HD-DCS Breakout cable 4x MTP - 4x MTP	yellow	by the metre
475044	475054	HD-DCS Breakout cable 8x MTP - 8x MTP	yellow	by the metre
475045	475055	HD-DCS Breakout cable 12x MTP - 12x MTP	yellow	by the metre

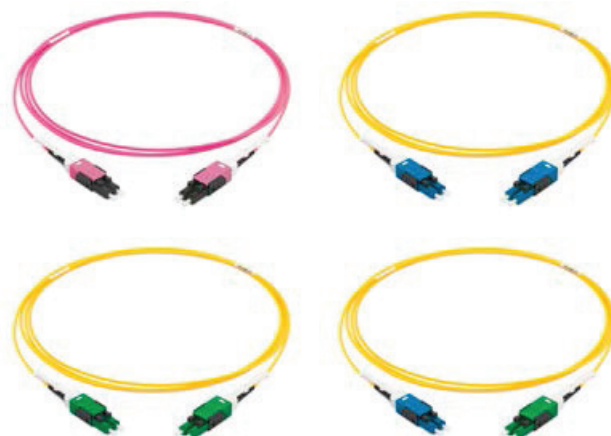
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HIGH-DENSITY DATA CENTRE SOLUTION

Patch and fanout cables

HD-DCS patch cords, LCD Uniboot OM4 or OS2

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



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

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

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

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

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

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

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

HD-DCS patch cords, MTP® OM4 or OS2

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



Description	Colour sheath	Connectivity	Length in m / Article No.				
			1	2	3	4	5
HD-DCS patch cord MTP - MTP							
G50/125 OM4	heather violet	A	473200	473201	473202	473203	473204
G50/125 OM4	heather violet	B	473210	473211	473212	473213	473214
G50/125 OM4	heather violet	C	473220	473221	473222	473223	473224
E9/125 G.652.D (BLO)	yellow	A	473260	473261	473262	473263	473264
E9/125 G.652.D (BLO)	yellow	B	473270	473271	473272	473273	473274
E9/125 G.652.D (BLO)	yellow	C	473280	473281	473282	473283	473284

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HIGH-DENSITY DATA CENTRE SOLUTION

Patch and fanout cables

HD-DCS fanout cables, MTP®-LCD

8 fibres, OM4 or OS2

for splitting 100G into 4x 25G or 40G into 4x 10G

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

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



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

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HD-DCS fanout cables, MTP®-LCD

12 fibres, OM4 or OS2

for connecting active components

Thin, very flexible fibre-optic fanout cable (round, Ø 2.0 mm) with 12 fibres.
Low fire load due to halogen-free flame-retardant LSZH sheath.
Available in 2.5 m standard length (other lengths on request).
Standard connectivity methods: A or C.
Sticker labelling at both cable ends.
Thin divider housing for single-cable separation ("legs").
The legs with LCD Uniboot (LCDU) plugs are numbered (1-6),
can be ordered graded in length or of equal length.
Project-specific assemblies available on request.
Suitable for all high-performance applications in the data centre environment.
Assembled to a very high quality which guarantees optimum values
for optical performance (IL/RL).

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



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

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