SKYLANE OPTICS ®

Compatible transceivers

Skylane Optics is a European supplier of transceivers and DAC cabling and compatible with all common brands in the field of network, server and storage equipment.

The transceivers and DAC cables from this catalog are compatible with equipment from Cisco, Hewlett Packard (HP), Brocade, Juniper, Arista, Mellanox, Netgear, Linksys, Zyxel, Allied Telesys, D-Link, TP-Link and Synology (all mentioned brand names are the property of the respective trademark holders). The warranty and support are guaranteed.

Why choose for a collaboration with us and Skylane Optics?
- Extensive (on-site) support
- 100% quality control
- Short delivery times
- Competitive pricing
- Complete range

Developments in cloud computing, IoT (Internet of Things) and 5G asks for higher data speeds within data centres and server rooms. We have two product lines, (Q) SFP transceivers and DAC cables, to realize higher speeds.

Both transceivers and DAC cables use optical ports where one transceiver or DAC cable can be placed in. Optical ports are two commonly used forms, SFP and QSF, for different speeds from 1G up to 100G:

Form factor / speed	1G	10G	25G	40G	100G
SFP	SFP	SFP+	SFP28		
QSFP				QSFP+	QSFP28

Optical transceivers and fiber optic cable

Reduce space, optimize airflow!

Looking for the optimal airflow? We advise a combination of an optical transceiver and fibre cable.

At speeds up to 25G fibre patch cables with LC connectors are most common. For 40G and 100G MTP/MPO patch cables are used in data centres to connect equipment. MTP/MPO cables are used to connect equipment with a patch panel. The special thing about the MTP / MPO connector is that 12 fibres (or multiple) are placed in a single connector.
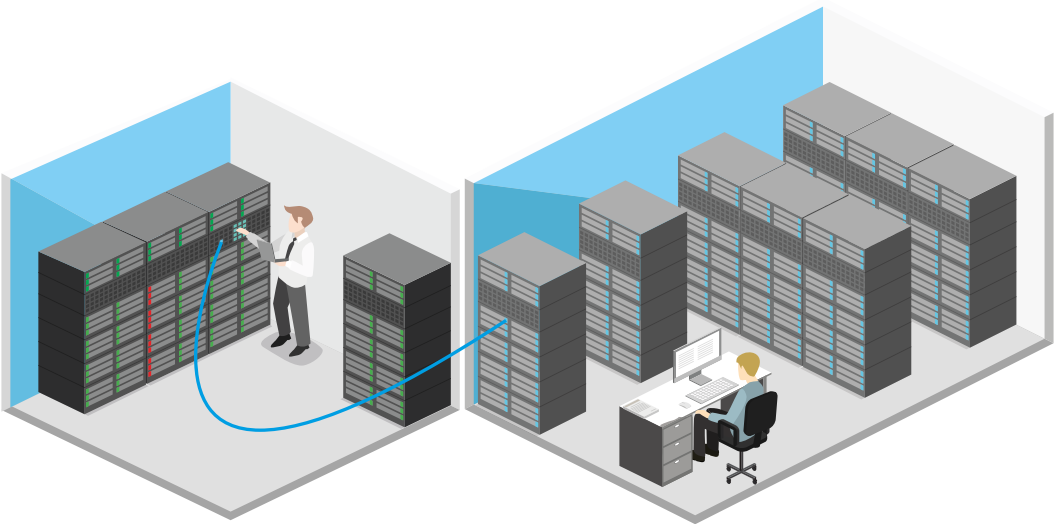
Speed / type fiber optic cable	1/10/25G	40 to 100G / 4X10 to 25G	40G/100G
Type patch cable	LC duplex patch cable	MTP/MPO to LC fanout cable	MTP/MPO patch cable

Advantages:
- ✓ Long distances bridgeable (several hundred meters by multi-mode and kilometres by single mode)
- ✓ Good airflow because of thin cables

Point of attention:
- • When connecting the cable or re-patching, it is necessary to clean the connectors and modules thoroughly.

Transceiver and traditional copper data cable

For connecting old and new equipment

A combination of a transceiver that fits into a fibre optic port with one RJ45 connector for a CAT6 or CAT6A data cable is the best solution.

This solution is used for 1G and 10G connections. The maximum distance that can be bridged is 100 meters with 1G modules, this is equal to traditional data cabling. With 10G modules the maximum distance is shorter, 30 meters.
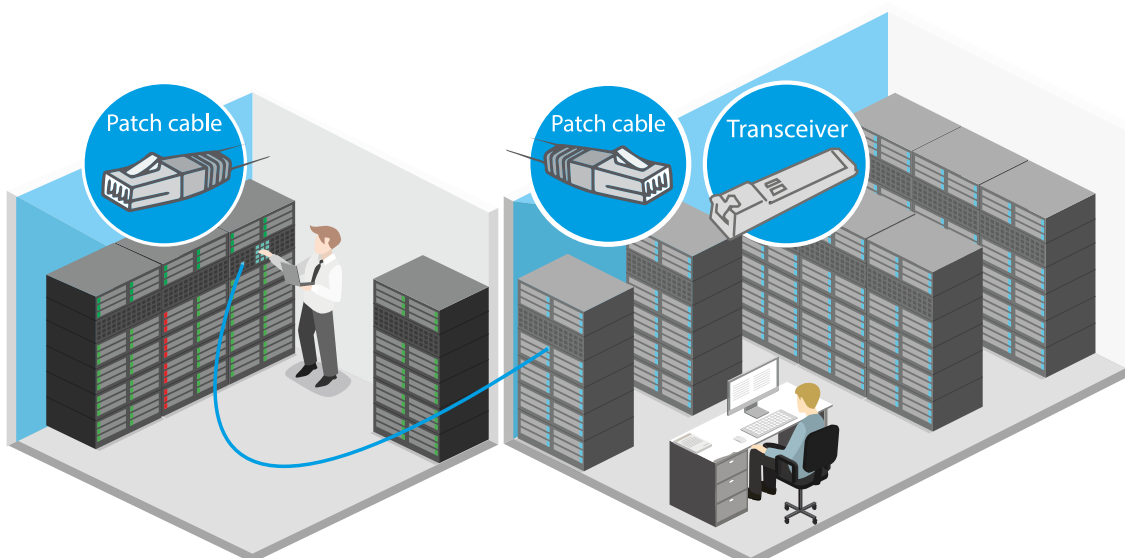These modules are mainly used as a device with only a RJ45 port is connected to a device with exclusively fibre optic ports. This is a good solution for legacy equipment, making replacement unnecessary.

Advantages:
✓ Ensures compatibility with legacy equipment with only RJ45 ports
✓ Flexible; with a CAT6 / 6A cable you can easily attach a RJ45 connector on location

Point of attention:
• The transceivers with copper port are compared with other solutions relatively expensive
• Suitable for 1G and 10G connections
• Short distances: 100m for 1G and 30m for 10G

Patch cable

Patch cable   Transceiver

SFP transceivers

Skylane Optics Fiber SFP Tranceivers

SFP SX transceiver module

• Suited for connecting equipment with a 1G fiber port to a multimode cable

Technical specifications

Form factor	: SFP
Media	: Multimode
Network protocol	: Gigabit Ethernet
Max. distance	: 550 m
Connector type	: LC
Number of fibers	: 2
Wavelength Rx	: 850 nm
Wavelength Tx	: 850 nm

Type no.	Manufacturer no.	Description
SF0203	SFP85P55DR0DAA5	SFP SX transceiver coded for Cisco
SF0236	SFP85P55GE0D220	SFP SX transceiver coded for HP Procurve
SF0378	SFP85P55GE0D520	SFP SX transceiver coded for HP H3C
SF8126	SFP85P55GE0D270	SFP SX transceiver coded for Brocade
SF8020	SFP85P55GE0DC05	SFP SX transceiver coded for Juniper
SF0188	SFP85P55GE0D287	SFP SX transceiver coded for Arista
SF8088	SFP85P55GE0D000	SFP SX transceiver coded for open platform
SF8222	SFP85P55GE0D989	SFP SX transceiver coded for Netgear
SF0088	SFP85P55GE0DAE5	SFP SX transceiver coded for Linksys
SF0330	SFP85P55GE0D000ZYXEL	SFP SX transceiver coded for Zyxel
SF8155	SFP85P55GE0DJ05	SFP SX transceiver coded for Allied Telesys
SF0331	SFP85P55GE0DJ35	SFP SX transceiver coded for D-Link
SF8108	SFP85P55GE0D490	SFP SX transceiver coded for TP-Link
SF0332	SFP85P55GE0D000SYNOL	SFP SX transceiver coded for Synology

SFP LX transceiver module

• Suited for connecting equipment with a 1G fiber port to a multimode or singlemode cable

Technical specifications

Form factor	: SFP
Media	: Multimode, Singlemode
Network protocol	: Gigabit Ethernet
Max. distance	: 10000 m
Connector type	: LC
Number of fibers	: 2
Wavelength Rx	: 1310 nm
Wavelength Tx	: 1310 nm

Type no.	Manufacturer no.	Description
SF0080	SFP13010GE2DAA6	SFP LX transceiver coded for Cisco
SF0232	SFP13010DR0D221	SFP LX transceiver coded for HP Procurve
SF8176	SFP13010GE0D521	SFP LX transceiver coded for HP H3C
SF8052	SFP13010GE0D271	SFP LX transceiver coded for Brocade
SF8061	SFP13010GE0DC06	SFP LX transceiver coded for Juniper
SF0360	SFP13010GE0D288	SFP LX transceiver coded for Arista
SF8024	SFP13010GE0D000	SFP LX transceiver coded for open platform
SF8187	SFP13010GE0D990	SFP LX transceiver coded for Netgear
SF0089	SFP13010GE0DAE6	SFP LX transceiver coded for Linksys
SF0333	SFP13010GE0D000ZYXEL	SFP LX transceiver coded for Zyxel
SF0334	SFP13010GE0DJ07	SFP LX transceiver coded for Allied Telesys
SF0335	SFP13010GE0DJ34	SFP LX transceiver coded for D-Link
SF0027	SFP13010GE0D491	SFP LX transceiver coded for TP-Link
SF0336	SFP13010GE0D000SYNOL	SFP LX transceiver coded for Synology

SFP Copper RJ45 transceiver 1000Base-T

• Suited for connecting equipment with a 1G fiber port to a Cat5E/6/6A UTP of S/FTP cable

Technical specifications

Form factor   : SFP
Media   : Copper
Network protocol   : Gigabit Ethernet
Max. distance   : 100 m

Type no.	Manufacturer no.	Description
SF0114	SFT00P10GE0A000	SFP copper transceiver coded for open platform
SF0235	SFT00P10GE0A103	SFP copper transceiver coded for Cisco
SF0340	SFT00P10GE0AAE9	SFP copper transceiver coded for Linksys
SF0341	SFT00P10GE0A000ZYXEL	SFP copper transceiver coded for Zyxel
SF0103	SFT00P10GE0AJ10	SFP copper transceiver coded for Allied Telesys
SF0400	SFT00P10GE0A000SYNOL	SFP copper transceiver coded for Synology

SFP Copper RJ45 transceiver 10/100/1000Base-T

• Suited for connecting equipment with a 1G fiber port to a Cat5E/6/6A UTP of S/FTP cable

Technical specifications

Form factor   : SFP
Media   : Copper
Network protocol   : Ethernet, Fast Ethernet, Gigabit Ethernet
Max. distance   : 100 m
Connector type   : RJ45

Type no.	Manufacturer no.	Description
SF0337	SGT00P10DR0A223	SFP copper transceiver coded for HP procurve
SF0357	SGT00P10DR0A535	SFP copper transceiver coded for HP H3C
SF0338	SGT00P10DR03729	SFP copper transceiver coded for Brocade
SF0107	SGT00P10DR0AC09	SFP copper transceiver coded for Juniper
SF0361	SGT00P10DR0I280	SFP copper transceiver coded for Arista
SF0339	SGT00P10DR0A986	SFP copper transceiver coded for Netgear
SF0120	SGT00P10DR0AJ4D	SFP copper transceiver coded for D-Link

Skylane Optics Fiber SFP+ Tranceivers

SFP+ SR transceiver module

- Suited for connecting equipment with a 10G fiber port to a multimode cable

Technical specifications

Form factor	:	SFP+
Media	:	Multimode
Network protocol	:	10 Gigabit Ethernet
Max. distance	:	300 m
Connector type	:	LC
Number of fibers	:	2
Wavelength Rx	:	850 nm
Wavelength Tx	:	850 nm

Type no.	Manufacturer no.	Description
SF0084	SPP85P30100D123	SFP+ SR transceiver coded for Cisco
SF0075	SPP85P3010GD205	SFP+ SR transceiver coded for HP Procurve
SF0100	SPP85P30100D536	SFP+ SR transceiver coded for HP H3C
SF0092	SPP85P30100D257	SFP+ SR transceiver coded for Brocade
SF8016	SPP85P30100DC16	SFP+ SR transceiver coded for Juniper
SF0362	SPP85P3010AD283	SFP+ SR transceiver coded for Arista
SF0176	SPP85P30100DO12	SFP+ SR transceiver coded for Mellanox
SF0002	SPP85P30100D000	SFP+ SR transceiver coded for open platform
SF0096	SPP85P30100D992	SFP+ SR transceiver coded for Netgear
SF8235	SPP85P30100DAEA	SFP+ SR transceiver coded for Linksys
SF0342	SPP85P30100D000ZYXEL	SFP+ SR transceiver coded for Zyxel
SF0343	SPP85P30100DJ25	SFP+ SR transceiver coded for Allied Telesys
SF0344	SPP85P30100DJ46	SFP+ SR transceiver coded for D-Link
SF0064	SPP85P30100D494	SFP+ SR transceiver coded for TP-Link
SF0345	SPP85P30100D000SYNOL	SFP+ SR transceiver coded for Synology

SFP+ LR transceiver module

- Suited for connecting equipment with a 10G fiber port to a singlemode cable

Technical specifications

Form factor	:	SFP+
Media	:	Singlemode
Network protocol	:	10 Gigabit Ethernet
Max. distance	:	10000 m
Connector type	:	LC
Number of fibers	:	2
Wavelength Rx	:	1310 nm
Wavelength Tx	:	1310 nm

Type no.	Manufacturer no.	Description
SF0085	SPP13010100D124	SFP+ LR transceiver coded for Cisco
SF0076	SPP1301010GD206	SFP+ LR transceiver coded for HP Procurve
SF0101	SPP13002100D538	SFP+ LR transceiver coded for HP H3C
SF8015	SPP13010100D258	SFP+ LR transceiver coded for Brocade
SF8017	SPP13010100DC18	SFP+ LR transceiver coded for Juniper
SF0363	SPP1301010AD281	SFP+ LR transceiver coded for Arista
SF0346	SPP13010100DO13	SFP+ LR transceiver coded for Mellanox
SF0389	SPP13010100D000	SFP+ LR transceiver coded for open platform
SF0097	SPP13010100D993	SFP+ LR transceiver coded for Netgear
SF0260	SPP13010100DAEB	SFP+ LR transceiver coded for Linksys
SF0347	SPP13010100D000ZYXEL	SFP+ LR transceiver coded for Zyxel
SF0348	SPP13010100DJ26	SFP+ LR transceiver coded for Allied Telesys
SF0349	SPP13010100DJ47	SFP+ LR transceiver coded for D-Link
SF0350	SPP13010100D495	SFP+ LR transceiver coded for TP-Link
SF8053	SPP13010100D000Synol	SFP+ LR transceiver coded for Synology

SFP+ Copper RJ45 transceiver 10GBase-T

- Suited for connecting equipment with a 10G fiber port to a Cat6A UTP of S/FTP cable

Technical specifications

Form factor	: SFP+
Media	: Copper
Network protocol	: 10 Gigabit Ethernet
Max. distance	: 30 m
Connector type	: RJ45

Type no.	Manufacturer no.	Description
SF0174	SPT00M301000000	SFP+ copper transceiver coded for open platform
SF0351	SPT00M301000123	SFP+ copper transceiver coded for Cisco
SF0352	SPT00M301000O12	SFP+ copper transceiver coded for Mellanox
SF0404	SPT00M301000000SYNOL	SFP+ copper transceiver coded for Synology

KTI Networks - Skylane Optics Fiber QSFP Tranceiver

Skylane Optics Fiber QSFP Tranceiver

QSFP+ SR4 transceiver module

- Suited for connecting equipment with a 40G fiber port to a multimode MTP/MPO cable

Technical specifications

Form factor	: QSFP+
Media	: Multimode
Network protocol	: 40 Gigabit Ethernet
Max. distance	: 100 m
Connector type	: MTP (MPO)
Number of fibers	: 8
Wavelength Rx	: 850 nm
Wavelength Tx	: 850 nm

Type no.	Manufacturer no.	Description
SF0353	QFP85P1040PDAC3	QSFP+ SR4 transceiver coded for Cisco
SF0358	QFP85P1040PDL01	QSFP+ SR4 transceiver coded for HP H3C
SF0354	QFP85P1040PD27G	QSFP+ SR4 transceiver coded for Brocade
SF0355	QFP85P1040PDC32	QSFP+ SR4 transceiver coded for Juniper
SF0364	QFP85P1040PDE76	QSFP+ SR4 transceiver coded for Arista
SF0356	QFP85P1040PDO15	QSFP+ SR4 transceiver coded for Mellanox
SF0003	QFP85P1040PD000	QSFP+ SR4 transceiver coded for open platform

QSFP28 SR4 transceiver module

- Suited for connecting equipment with a 100G fiber port to a multimode MTP/MPO cable

Technical specifications

Form factor	: QSFP28
Media	: Multimode
Network protocol	: 100 Gigabit Ethernet
Max. distance	: 100 m
Connector type	: MTP (MPO)
Number of fibers	: 8
Wavelength Rx	: 850 nm
Wavelength Tx	: 850 nm

Type no.	Manufacturer no.	Description
SF0365	Q2885P10C0PFAD5	QSFP28 SR4 transceiver coded for Cisco
SF0366	Q2885P10C0PFK9D	QSFP28 SR4 transceiver coded for HP H3C
SF0367	Q2885P10C0PFC3K	QSFP28 SR4 transceiver coded for Juniper
SF0368	Q2885P10C0PFE7F	QSFP28 SR4 transceiver coded for Arista
SF0369	Q2885P10C0PFO1W	QSFP28 SR4 transceiver coded for Mellanox

DAC / Twinax cables

Copper cable with on both sides a (Q)SFP module

DAC stands for Direct Attach Copper and is also called Twinax cable. This is a copper cable with a (Q)SFP at both ends module that can be placed in a fibre optic port to become.

Available in different types
DAC cables are made up of passive cables without active electronics. because of this the price is very interesting in relation to individual transceivers and cabling. Because these cables are passive, the distance that can be bridged is short.

We recommend a maximum of 5 meters for an optimal connection at 40G and maximum 3 meters at 100G. The cables are available for speeds from 10G to 100G. There are two types of DAC cables: DAC cables that have two ports of equal speed interconnect and breakout cables that connect one port with four ports.

Below you can find which type of DAC cable for which speed is the best option:

Speed	10G	40G-4X10G	40G
Type cable	SFP+-SFP+	QSFP+-4xSFP+	QSFP+-QSFP+
Speed	25G	100G-4X25G	100G
Type cable	SFP28-SFP28*	QSFP28-4XSFP28*	QSFP28-QSFP28*

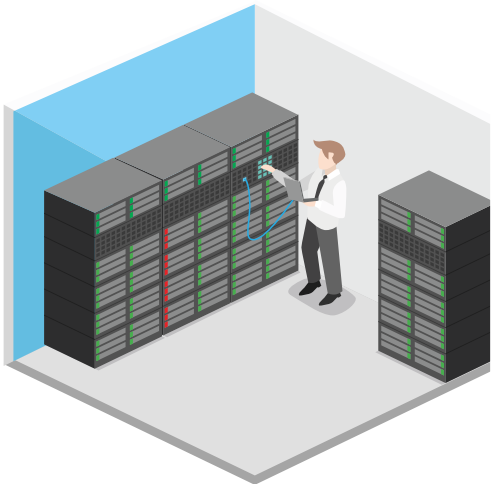*Available on request

Applications:
DAC cables are applied in 19″ cabinets to connect a switch with storage- or server equipment. Setups where a switch is placed in a rack are called TOR (Top of Rack).

Advantages:
✓ A completely passive solution which makes it attractively priced
✓ Low power consumption
✓ Suitable for use within 19″ for Top of rack applications

Point of attention:
✓ Suitable for short distances
✓ Relative thick cables because of the use of copper
✓ Equipment must support passive DAC cables

Skylane Optics Direct Attached Cable (DAC)

SFP+-SFP+ passive DAC (Direct Attach Copper) Twinax cable

- Skylane offers onsite support

Technical specifications

Form factor   : SFP+
Media   : Copper
Network protocol   : 10 Gigabit Ethernet
Cable technology   : DAC

Type no.	Manufacturer no.	Description
SF0390	DAPSSC50100CB70	Length: 0.5 m coded for Cisco
SF0391	DAPSSM01100CB70	Length: 1 m coded for Cisco
SF0392	DAPSSM02100B70	Length: 2 m coded for Cisco
SF0393	DAPSSM03100CB71	Length: 3 m coded for Cisco
SF0395	DAPSSM05100CB72	Length: 5 m coded for Cisco
SF0421	DAPSSM01100H517	Length: 1 m coded for HP H3C
SF0422	DAPSSM02100H517	Length: 2 m coded for HP H3C
SF0423	DAPSSM03100H518	Length: 3 m coded for HP H3C
SF0425	DAPSSM05100H518	Length: 5 m coded for HP H3C
SF0470	DAPSSC501000C53	Length: 0.5 m coded for Juniper
SF0471	DAPSSM011000C53	Length: 1 m coded for Juniper
SF0472	DAPSSM021000C53	Length: 2 m coded for Juniper
SF0473	DAPSSM031000C26	Length: 3 m coded for Juniper
SF0475	DAPSSM051000C54	Length: 5 m coded for Juniper
SF0530	DAPSSC501000O17	Length: 0.5 m coded for Mellanox
SF0531	DAPSSM011000O18	Length: 1 m coded for Mellanox
SF0532	DAPSSM021000O19	Length: 2 m coded for Mellanox
SF0533	DAPSSM031000O1A	Length: 3 m coded for Mellanox
SF0535	DAPSSM051000O1B	Length: 5 m coded for Mellanox
SF0500	DAPSSC501000286	Length: 0.5 m coded for Arista
SF0501	DAPSSM011000289	Length: 1 m coded for Arista
SF0502	DAPSSM021000293	Length: 2 m coded for Arista
SF0503	DAPSSM031000290	Length: 3 m coded for Arista
SF0505	DAPSSM051000291	Length: 5 m coded for Arista
SF0380	DAPSSC501000000	Length: 0.5 m coded for open platform
SF0381	DAPSSM011000000	Length: 1 m coded for open platform
SF0382	DAPSSM021000000	Length: 2 m coded for open platform
SF0383	DAPSSM031000000	Length: 3 m coded for open platform
SF0385	DAPSSM051000000	Length: 5 m coded for open platform
SF8192	DAPSSM011000987	Length: 1 m coded for Netgear
SF0158	DAPSSM021000987	Length: 2 m coded for Netgear
SF8097	DAPSSM031000988	Length: 3 m coded for Netgear
SF0379	DAPSSM051000988	Length: 5 m coded for Netgear
SF0561	DAPSSM011000000ZYXEL	Length: 1 m coded for Zyxel
SF0562	DAPSSM021000000ZYXEL	Length: 2 m coded for Zyxel
SF0563	DAPSSM031000000ZYXEL	Length: 3 m coded for Zyxel
SF0565	DAPSSM051000000ZYXEL	Length: 5 m coded for Zyxel

QSFP+-QSFP+ passive DAC (Direct Attach Copper) Twinax cable

• Suited for use in equipment with 10G and 40G fiber ports

Technical specifications

Form factor : QSFP+
Media : Copper
Network protocol : 40 Gigabit Ethernet
Cable technology : DAC

Type no.	Manufacturer no.	Description
SF0571	DAPQQM01400CB84	Length: 1 m coded for Cisco
SF0572	DAPQQM02400CB84	Length: 2 m coded for Cisco
SF0573	DAPQQM03400CB85	Length: 3 m coded for Cisco
SF0575	DAPQQM05400CB86	Length: 5 m coded for Cisco
SF0430	DAPQQC50400HL03	Length: 0.5 m coded for HP H3C
SF0431	DAPQQM01400HL03	Length: 1 m coded for HP H3C
SF0433	DAPQQM03400HL04	Length: 3 m coded for HP H3C
SF0435	DAPQQM05400HL05	Length: 5 m coded for HP H3C
SF0481	DAPQQM014000C58	Length: 1 m coded for Juniper
SF0483	DAPQQM034000C59	Length: 3 m coded for Juniper
SF0485	DAPQQM054000C60	Length: 5 m coded for Juniper
SF0541	DAPQQM014000O1G	Length: 1 m coded for Mellanox
SF0542	DAPQQM024000O1H	Length: 2 m coded for Mellanox
SF0543	DAPQQM034000O1I	Length: 3 m coded for Mellanox
SF0545	DAPQQM054000O1K	Length: 5 m coded for Mellanox
SF0510	DAPQQC504000E70	Length: 0.5 m coded for Arista
SF0511	DAPQQM014000E71	Length: 1 m coded for Arista
SF0512	DAPQQM024000E72	Length: 2 m coded for Arista
SF0513	DAPQQM034000E73	Length: 3 m coded for Arista
SF0515	DAPQQM054000E74	Length: 5 m coded for Arista
SF0451	DAPQQM01400027U	Length: 1 m coded for Brocade
SF0453	DAPQQM03400027V	Length: 3 m coded for Brocade

QSFP+-4xSFP+ passive DAC (Direct Attach Copper) Twinax cable

- Skylane offers onsite support

Technical specifications

Form factor	: QSFP+, SFP+
Media	: Copper
Network protocol	: 40/10 Gigabit Ethernet
Cable technology	: DAC

Type no.	Manufacturer no.	Description
SF0401	DAPQSM014000B78	Length: 1 m coded for Cisco
SF0402	DAPQSM02400CB99	Length: 2 m coded for Cisco
SF0403	DAPQSM034000B79	Length: 3 m coded for Cisco
SF0405	DAPQSM054000B77	Length: 5 m coded for Cisco
SF0440	DAPQSC50400HL06	Length: 0.5 m coded for HP H3C
SF0441	DAPQSM01400HL06	Length: 1 m coded for HP H3C
SF0442	DAPQSM02400HL06	Length: 2 m coded for HP H3C
SF0443	DAPQSM03400HL07	Length: 3 m coded for HP H3C
SF0445	DAPQSM05400HL08	Length: 5 m coded for HP H3C
SF0490	DAPQSC504000C38	Length: 0.5 m coded for Juniper
SF0491	DAPQSM014000C38	Length: 1 m coded for Juniper
SF0492	DAPQSM024000C38	Length: 2 m coded for Juniper
SF0493	DAPQSM034000C39	Length: 3 m coded for Juniper
SF0495	DAPQSM054000C3A	Length: 5 m coded for Juniper
SF0550	DAPQSC504000O1D	Length: 0.5 m coded for Mellanox
SF0551	DAPQSM014000O1D	Length: 1 m coded for Mellanox
SF0552	DAPQSM024000O1D	Length: 2 m coded for Mellanox
SF0520	DAPQSC504000296	Length: 0.5 m coded for Arista
SF0521	DAPQSM014000297	Length: 1 m coded for Arista
SF0522	DAPQSM024000298	Length: 2 m coded for Arista
SF0523	DAPQSM034000299	Length: 3 m coded for Arista
SF0525	DAPQSM05400029A	Length: 5 m coded for Arista
SF0460	DAPQSC50400027A	Length: 0.5 m coded for Brocade
SF0461	DAPQSM01400027A	Length: 1 m coded for Brocade
SF0462	DAPQSM02400027A	Length: 2 m coded for Brocade
SF0463	DAPQSM03400027B	Length: 3 m coded for Brocade
SF0465	DAPQSM05400027C	Length: 5 m coded for Brocade