

# Driving your short-reach interconnects.

Often used for short-reach interconnects, Direct Attach, Active Copper and Active Optical Cables (sometimes called DAC, ACC and AOC respectively) are an indispensable part of any network. Terminated with transceiver-style connectors, they are designed to be used in the same ports as a typical SFP+ or QSFP transceiver, with no need for adaptors or converters.

## The ProLabs Advantage

10G, 25G, 40G & 100G product solutions.

Multi-code options enabling different OEM vendors at each end of the cable.

Seamless interoperability with network equipment.

Fast Delivery, Custom solutions.

## Compatible with Over 50 Systems

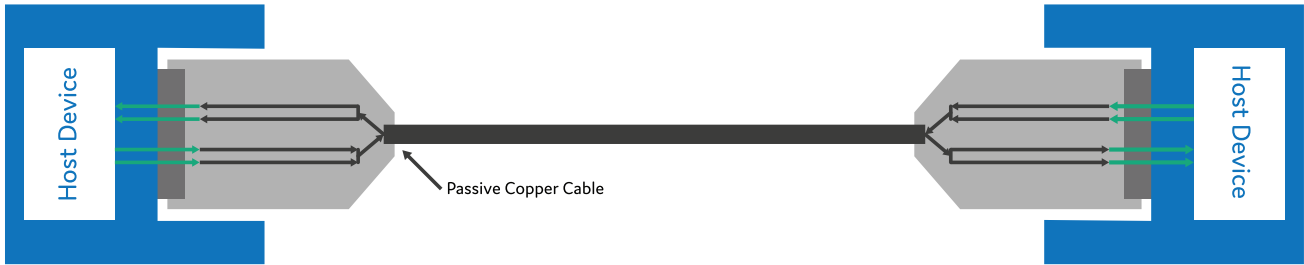
ProLabs cables can be coded for compatibility with a huge range of vendors, enabling the connectivity you need. We strive to support as many OEMs as possible, and you can see a sample list of compatible OEMs to the right. If you have questions about compatibility or don't know if we support a vendor you need, contact a ProLabs representative for more information and advice.

Cisco, Arista, Juniper, Dell/Force 10, HP, Intel, Brocade, Allied Telesis, Huawei, and many more!

# Inside the Cable

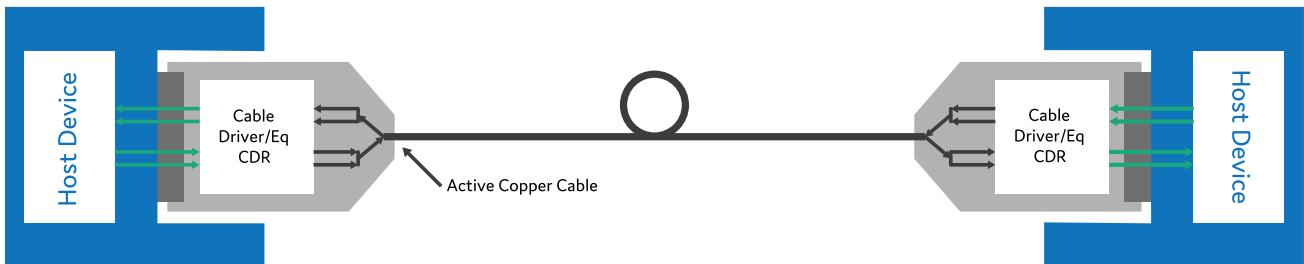
Direct Attach Cables  
10G, 25G, 40G & 100G

Direct Attach Cables run a direct connector-to-connector electrical connection through a thick copper wire, in order to avoid EM interference. This allows for a passive connection.



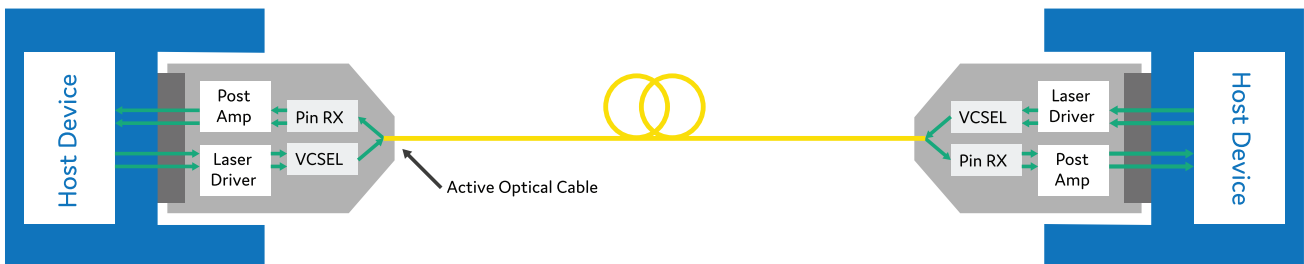
Active Copper Cables  
10G & 40G

Whilst mostly similar to a Direct Attach Cable, Active Copper Cables amplify the signal for both thinner cables and longer reach, at the cost of drawing additional power from the switch.



Active Optical Cables  
10G, 40G & 100G

Active Optical Cables work similarly to transceivers and fiber cable, however with the fiber being fixed. This removes a common point of failure/signal degradation and reduces cost.



Note: Some technologies may use multiple lanes

## Ordering Guide

A simple to install,  
cost-effective and  
interoperable  
solution.

### Direct Attach Cables 10G, 25G, 40G & 100G

Suitable for short reach interconnects either within a single rack or between adjacent racks, Direct Attach Cables transmit information passively between the two connected ports.



Description	Standard Lengths*
10G SFP+ to SFP+	1M, 2M, 3M, 5M, 7M
25G SFP28 to SFP28	1M, 2M, 3M, 5M, 7M
40G QSFP+ to QSFP+	1M, 2M, 3M, 5M
40G QSFP+ to 4xSPF+	1M, 2M, 3M, 5M
100G QSFP28 to QSFP28	1M, 2M, 3M, 5M
100G QSFP28 to 4xSFP28	1M, 2M, 3M, 5M

Custom lengths available on request - please contact ProLabs

### Active Copper Cables 10G & 40G

Similar to a Direct Attach Cable, Active Copper Cables draw power from the switch in order to extend the reach of the signal, as well as allow the use of a thinner gauge cable.



Description	Standard Lengths*
10G SFP+ to SFP+	1M, 3M, 7M, 9M
40G QSFP+ to QSFP+	1M, 3M, 7M, 9M
40G QSFP+ to 4xSPF+	1M, 3M, 7M, 9M

Custom lengths available on request - please contact ProLabs

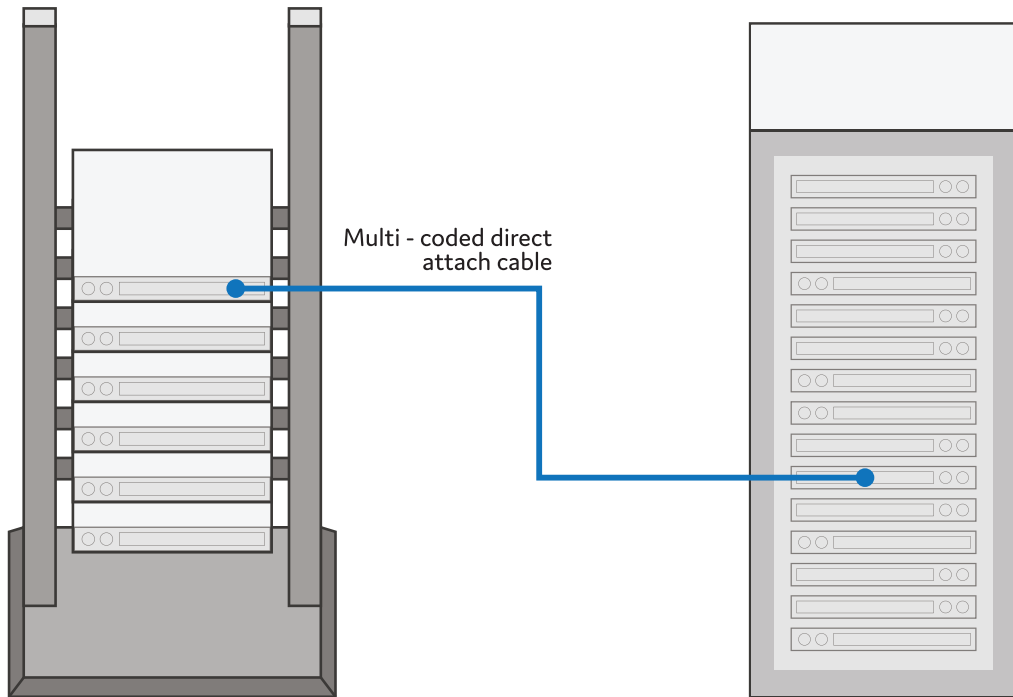
### Active Optical Cables 10G, 40G & 100G

Suitable for short reach interconnects either within a single rack or between adjacent racks, Direct Attach Cables transmit information passively between the two connected ports.



Description	Standard Lengths*
10G SFP+ to SFP+	1M, 2M, 3M, 5M, 7M, 10M, 15M, 20M
40G QSFP+ to QSFP+	1M, 2M, 3M, 5M, 7M, 10M, 15M, 20M
40G QSFP+ to 4xSPF+	1M, 2M, 3M, 5M, 7M, 10M, 15M, 20M
100G QSFP28 to QSFP28	1M, 2M, 3M, 5M, 7M, 10M, 15M, 20M

Custom lengths available on request - please contact ProLabs



#### Multi-Code Cables

Prolabs offer the ability to code each connector of the cable to be compatible with different OEM vendors. This allows us to better support our customers and seamlessly increase interoperability in your network.

Provided by: [Mega Hertz](https://www.megahertz.com) | [800-883-8839](tel:800-883-8839) | [info@go2mhz.com](mailto:info@go2mhz.com) | [www.go2mhz.com](http://www.go2mhz.com)

<https://www.go2mhz.com/product/direct-attach-cables-active-copper-optical-cables/>