



ARVENISIS TECHNOLOGY

QUALITY FIBRE SOLUTIONS

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1. NETWORK TRANSCEIVERS

1.1. SFP



All Arvensis Technology SFP's are compliant with MSA SFP's industry specification. SFP modules are designed to support SONET, Gigabit Ethernet, Fibre Channel, and other communications standards. SFP transceivers typically come in 4 different versions: T, SX, LX, and ZX. The SX version will work on Multi Mode fibre; LX and ZX only work on Single Mode fibre. The LX will cover a range of 10km and the ZX version up to 80km. The T version is the 1000Base-T RJ-45 variants. All Arvensis Technology SFP transceivers come with DOM (Digital Optical Monitoring) or DDM (Digital Diagnostic Monitoring). Our SFP transceivers can be supplied in both commercial grade 0C~70C and industrial grade variants -40C~85C.

Item	Description	Price
SFP	SFP,1Gb, 850nm, 550m, DDM, LC, MMF SFP, 2Gb, 850nm, 400m, DDM, LC, MMF SFP, 1Gb, 1310nm, 1km, DDM, LC, MMF SFP, 1Gb, 1310nm, 10km, DDM, LC SFP, 1Gb, 1310nm, 15km, DDM, LC SFP, 1Gb, 1310nm, 20km, DDM, LC SFP, 1Gb, 1310nm, 40km, DDM, LC SFP, 1Gb, 1550nm, 40km, DDM, LC SFP, 1Gb, 1550nm, 80km, DDM, LC SFP, 1Gb, 1550nm, 100km, DDM, LC SFP, 1Gb, 1550nm, 120km, DDM, LC SFP, 1Gb, 1550nm, 160km, DDM, LC	POA
BiDi SFP	SFP, BiDi, 100M-155M, 1310nmT/1490nmR, 20km, DDM, LC SFP, BiDi, 100M-155M, 1490nmT/1310nmR, 20km, DDM, LC SFP BIDI, 100Mbps-1.25Gbps, 1310nmT/1490nmR 10km LC SFP BIDI, 100Mbps-1.25Gbps, 1490nmT/1310nmR 10km, LC SFP, BIDI 1.25G 1310nmT/1550nmR 10km DDM LC SFP, BIDI 1.25G 1550nmT/1310nmR 10km DDM LC SFP, BIDI 1.25G 1310nmT/1550nmR 20km DDM LC SFP, BIDI 1.25G 1550nmT/1310nmR 20km DDM LC SFP, BIDI 1.25G 1310nmT/1490nmR 20km DDM LC SFP, BIDI 1.25G 1490nmT/1310nmR 20km DDM LC SFP, BIDI 1.25G 1310nmT/1490nmR 40km DDM LC SFP, BIDI 1.25G 1490nmT/1310nmR 40km DDM LC SFP, BIDI 1.25G 1310nmT/1550nmR 40km DDM LC SFP, BIDI 1.25G 1550nmT/1310nmR 40km DDM LC SFP, BIDI 1.25G 1310nmT/1490nmR 60km DDM LC SFP, BIDI 1.25G 1490nmT/1310nmR 60km DDM LC	POA
CWDM SFP	SFP,CWDM 1.25G 1270nm-1610nm 19dB DDM SFP, CWDM 1.25G 1270nm-1610nm 24dB DDM SFP, CWDM 1.25G 1270nm-1610nm 28dB DDM SFP, CWDM 1.25G 1270nm-1610nm 34dB DDM SFP, CWDM 1.25G 1470nm-1610nm 41dB DDM	POA
DWDM SFP	SFP, DWDM, 100Mb-4.25Gb, ITU 50Ghz, DDM, 13dBm to 45dBm SFP, DWDM, 100Mb-4.25Gb, ITU 100Ghz, DDM, 13dBm to 45dBm	POA
Copper SFP	SFP, Cu 10,100Base-T, With or without RX-LOS, RJ45, 100m SFP, Cu 1000Base-T, Serdes with or without auto-neg and with or without RX-LOS SFP,Cu1000Base-T, Auto-neg, RJ45, Host or line side SFP, Cu 10GBase-T, Host/Line side, XFI, 1000 Base-X/SGMII, 30m, RJ45, CAT6A/7	POA

1.2. SFP+



The SFP+ or SFP Plus is the Enhanced Small Form-factor Pluggable and has the same shape as a 1G SFP but will support data rates up to 16Gbps. SFP+ 10GB Optics have a smaller footprint and lower power consumption than XFP transceivers.

The SFP+ will support 8Gb on Fibre Channel and 10 Gbit/s on Gigabit Ethernet and Optical Transport Network standard OTU2.

The SFP+ 10Gb are available in 5 different versions: T, SX, LX, EX and ZX.

The SX version will work on Multi Mode fibre and the LX, EX and ZX work on Single Mode fibre. The LX will cover a maximum range of 10km, the EX of 40km, with the ZX reaching up to 80km. The T version is the 10000Base-T RJ-45 versions.

In 2010, the ZR (80km) CWDM and DWDM SFP 10GB optics became available.

The SFP+ 10G are available in: CWDM SFP+ 10Gb, DWDM SFP+ 10Gb, DAC (Twinax), AOC and BiDi and SFP+ 10Gb. Arvensis Technology offer's the full CWDM and DWDM spectrum as well as Industrial temp -40C to 85C

Item	Description	Price
SFP+	SFP+, 16Gb, 850nm, MMF, <100m, LC (14.025Gbps) SFP+, 10Gb, 850nm, MMF, <300m, LC SFP+, 10Gb, 1310nm, MMF, <220m, LC SFP+, 10Gb, 1310nm, MMF, <2km, LC SFP+, 10Gb, 1310nm, 10km, LC SFP+, 16Gb, 1310nm, 10km, LC with CDR (14.025Gbps) SFP+, 16Gb, 1310nm, 10km, LC without CDR (14.025Gbps) SFP+, 10Gb, 1310nm 20km, LC SFP+, 10Gb, 1310nm 40km, LC SFP+, 10Gb, 1550nm 40km, LC SFP+, 10Gb, 1310nm 70km, LC SFP+, 10Gb, 1550nm 80km, LC SFP+, 10Gb, 1550nm 100km, LC with CDR	POA
BiDi SFP+	SFP+, 10Gb, BiDi 1270nmT/1330nmR 10km 9dB, LC SFP+, 10Gb, BiDi 1330nmT/1270nmR 10km 9dB, LC SFP+, 10Gb, BiDi 1270nmT/1330nmR 20km 12dB, LC SFP+, 10Gb, BiDi 1330nmT/1270nmR 20km 12dB, LC SFP+, 10Gb, BiDi 1270nmT/1330nmR 40km 16dB, LC SFP+, 10Gb, BiDi 1330nmT/1270nmR 40km 16dB, LC SFP+, 10Gb, BiDi 1270nmT/1330nmR 60km 21dB, LC SFP+, 10Gb, BiDi 1330nmT/1270nmR 60km 21dB, LC SFP+, 10Gb, BiDi 1490nmT/1550nmR 80km 22dB, LC, CDR SFP+, 10Gb, BiDi 1550nmT/1490nmR 80km 22dB, LC, CDR	POA
CWDM SFP+	SFP+, 10Gb CWDM 10dB 1470nm~1610nm DFB, LC SFP+, 10Gb CWDM 14dB 1470nm~1610nm MSA Case SFP+, 10Gb CWDM 14dB 1470nm~1610nm MSA Case, CDR SFP+, 10Gb CWDM 23dB 1470nm~1610nm MSA Case SFP+, 10Gb CWDM 23dB 1470nm~1610nm MSA Case, CDR	POA
DWDM SFP+	SFP+, 10Gb DWDM 100Ghz 14dB, LC SFP+, 10Gb DWDM 50Ghz 14dB, LC SFP+, 10Gb DWDM 100Ghz 23dB, LC SFP+, 10Gb DWDM 50Ghz 23dB, LC SFP+, Tuneable, 10G DWDM 14dB 50GHZ SFP+, Tuneable, 10G DWDM 23dB 50GHZ	POA
Direct Attach Copper (DAC)	SFP+ cable, up to 10.5G, 1m, 30AWG, PASSIVE SFP+ cable, up to 10.5G, 2m, 30AWG, PASSIVE SFP+ cable, up to 10.5G, 5m, 24AWG, PASSIVE SFP+ cable, up to 10.5G, 5m, 30AWG, ACTIVE SFP+ cable, up to 10.5G, 10m, 24AWG, ACTIVE	POA
Copper SFP+	SFP+ 10GBase-T. Auto-neg for lower data rates. 10Gb–20m CAT6A, 100Mb at 100m	POA

1.3. QSFP



QSFP/QSFP+ QSFP28 is short for Quad (4-channel) Small Form-factor Pluggable and is a compact, hot-pluggable transceiver available in commercial and industrial grade options

QSFP modules can offer data rates from 40Gbps, 53Gbps, 103Gbps, 112Gbps and 200Gbps and 400Gbps and 800Gb hyper-scale solutions. Digital diagnostics functions are available via the I2C interface, as specified by the QSFP28 MSA.

QSFP28 100G QSFP28 SR4, LR4 and ER4 Lite 100G QSFP28 CWDM4, 4WDM4-10, 4WDM-20 and 4WDM-40 and more options are available.

Single Wavelength 100G QSFP28, Optical Transceiver for FR, DR and LR options are available.

QSFP28-DD electrical interfaces employ eight lanes that operate up to 25Gbps with NRZ modulation, providing connectivity of up to 200Gbps aggregate.

QSFP56-DD electrical interfaces will employ eight/four lanes that operate up to 50/100Gbps PAM4 modulation, providing connectivity up to 400Gbps aggregate.

Contact [Arvensis Technology](http://www.arvensis-technology.co.nz) with your requirements and we will help you with a solution fit for your needs.

Item	Description	Price
QSFP+	QSFP+, 40GBASE SR4, MMF, 850nm, 150m, MPO QSFP+, 40GBASE IR4, SMF, 2KM, 1270~1330, MPO QSFP+, 40GBASE PSM4, SMF, 10KM, MPO QSFP+, 40GBASE IR4, SMF, 2KM, 1270~1330, LC QSFP+, 40GBASE LR4, SMF, 10KM, 1270~1330, LC	POA
QSFP28	QSFP28, 40G SR4, 100m/OM3, 150m/OM4, MMF MPO QSFP28, 40G SR4, 300m/OM3, 400m/OM4, MMF MPO QSFP28, 103Gb SR4, 70m/OM3, 100m/OM4 MMF MPO QSFP28, 103.1/112.2Gb SR4, 70m/OM3, 100M/OM4 MMF MPO QSFP28, CWDM4, 103Gbps, SMF, 2km, LC, DDM QSFP28, CWDM4, 103Gbps, SMF, 10km, LC, DDM QSFP28, ER4, 103Gbps, SMF, 40km, LC, DDM QSFP28, LR4 EML, 103/112Gb, SMF, 10km, LC, DD, QSFP28, LR4 DML, 103/112Gb, SMF, 10km, LC, DDM QSFP28, LR4 EML, 103/112Gb, SMF, 20km, LC, DDM QSFP28, ER4, 103/112Gb, SMF, 40km, LC, DDM QSFP28, CLR4, 100Gb, SMF, 2km, LC, DDM QSFP28, LR4 DML, 103G, SMF, 10km, LC, DDM QSFP28, LR4 DML, 103G, SMF, 20km, LC, DDM	POA
QSFP56 or QSFP-DD	QSFP-DD, 2x100G CWDM4, 8x25G, 200GbE, 2km, SMF QSFP-DD, 2x100G 4WDM-10, 8x25G, 200GbE, 10km, SMF QSFP-DD, 2x100G LR4, 8x25G, 200GbE, 10km SMF QSFP-DD, 4x100G DR4, 4x100G 400GbE, 1310nm, SMF, 500m QSFP-DD, 4x100G FR4, 4x100G 400GbE, SMF, 2km QSFP-DD, 4x100G LR4, 4x100G 400GbE, SMF, 10km QSFP-DD, 8x 100G, DR8, 1310nm, 500m, MPO QSFP-DD, 8x 100G, FR1, 1310nm, 2km, MPO QSFP-DD, 2x 400Gb, FR4, CWDM4, 2km and 10km, 2x CS QSFP-DD, 800G, FR8, LANWDM8, 2km and 10km, LC	POA
Direct Attach Copper (DAC)	QSFP+ 40Gb cable, up to 0.5m, 30AWG QSFP+ 40Gb cable, up to 1m, 30AWG QSFP+ 40Gb cable, up to 2m, 30AWG QSFP+ 40Gb cable, up to 3m, 30AWG QSFP+ 40Gb cable, up to 5m, 26AWG QSFP+ to 4x 10Gb SFP+, 1m, 30AWG QSFP+ to 4x 10Gb SFP+, 3m, 30AWG QSFP+ to 4x 10Gb SFP+, 5m, 28AWG	POA
QSFP Adaptor	CFP to QSFP28 adapter, 100G, supports FEC CFP2 to QSFP28 adapter, 100G, without FEC, supports 100G QSFP28 LR4/ER4. Supports 100G QSFP28 SR4/PSM4/CWDM4/CLR4 when the 100GE network equipment's CFP2 port has FEC function	POA

1.4. XFP



XFP's operate at nominal wavelength of 850/1310/1550nm. XFP versions are SR (<300m), LR(<10km), ER(<40km) and ZR(<80km).
 Used for 10G-BASE ETH, 8G Fibre Channel and SDH/SONET
 XFP modules are hot-swappable and protocol-independent.
 Principal applications include 10 Gigabit Ethernet, 10Gbps Fibre Channel, synchronous optical networking (SONET) at OC-192 rates, synchronous optical networking STM-64, 10Gbps Optical Transport Network (OTN) OTU-2, and parallel optics links.
 XFP's operate over a single wavelength or use dense wavelength-division multiplexing techniques and are available in commercial or industrial temperature grade options
 All Arvensis Technology XFP transceivers include digital diagnostics (DDM) that provide management that was added to the SFF-8472 standard.
 XFP modules use an LC fibre connector type to achieve high density.

Item	Description	Price
XFP	XFP, 10Gb, 850nm, <300m, OM3 MMF, LC XFP, 10Gb, 1310nm, <220m, MMF, LC XFP, 9.95Gb-11.3Gb, 1310nm FP, <2km, LC, DDM, SMF XFP, 10Gb, 1310nm, 10km, DDM, LC XFP, 10Gb, 1310nm, 20km, DDM, LC XFP, 10Gb, 1310nm, 40km, DDM, LC XFP, 10Gb, 1550nm, 40km, DDM, LC XFP, 10Gb, 1310nm, 70km, DDM, LC XFP, 10Gb, 1550nm, 80km, DDM, LC XFP, 10Gb, 1550nm, 100km, DDM, LC XFP, 10Gb, 1550nm, 120km, DDM, LC	POA
BiDi XFP	XFP, 10Gb, BiDi 1270nmT/1330nmR 10km 9dB LC XFP, 10Gb, BiDi 1330nmT/1270nmR 10km 9dB LC XFP, 10Gb, BiDi 1270nmT/1330nmR 20km 12dB LC XFP, 10Gb, BiDi 1330nmT/1270nmR 20km 12dB LC XFP, 10Gb, BiDi 1270nmT/1330nmR 40km 16dB LC XFP, 10Gb, BiDi 1330nmT/1270nmR 40km 16dB LC XFP, 10Gb, BiDi 1270nmT/1330nmR 60km 21dB LC XFP, 10Gb, BiDi 1330nmT/1270nmR 60km 21dB LC XFP, 10Gb, BiDi 1490nmT/1550nmR 80km, LC XFP, 10Gb, BiDi 1550nmT/1490nmR 80km, LC	POA
CWDM XFP	XFP, CWDM 10Gb, 1470nm-1610nm, 10dB, DFB, LC XFP, CWDM 10Gb, 1470nm-1610nm, 14dB, EML, LC XFP, CWDM 10Gb, 1470nm-1610nm, 23dB, EML, LC	POA
DWDM XFP	XFP, DWDM, 10Gb, 14dB, 100Ghz XFP, DWDM, 10Gb, 23dB, 100Ghz XFP, DWDM, 10Gb, 14dB, 50Ghz XFP, DWDM, 10Gb, 23dB, 50Ghz XFP, 10Gb, DWDM, Tuneable Full C band ITU with FEC XFP, 10Gb, DWDM, Tuneable Full C band ITU without FEC	POA
Direct Attach Copper (DAC)	XFP, cable, up to 10.7G, 1m, 30AWG, PASSIVE XFP, cable, up to 10.7G, 3m, 30AWG, PASSIVE XFP, cable, up to 10.7G, 5m, 30AWG, PASSIVE XFP, cable, up to 10.7G, 7m, 30AWG, PASSIVE XFP, cable, up to 10.7G, 10m, 24AWG, ACTIVE XFP, cable, up to 10G to SFP+, 1m, 30AWG, PASSIVE XFP, cable, up to 10G to SFP+, 3m, 30AWG, PASSIVE XFP, cable, up to 10G to SFP+, 1m, 24AWG, PASSIVE	POA

1.5. CFP



CFP modules offer 100 Gigabit connectivity options for data centre networking, enterprise core aggregation. Link distances of 500m, 10km, 20km and 40km are supported.

Arvensis Technology offers SR10, LR4, ER4 CFP modules and converter adapters from CFP to QSFP28.

Digital Coherent Optics or DCO CFP's offer longer distances with high-gain soft-decision FEC enables signals to traverse longer distances while requiring fewer regenerator points. This provides more margin, allowing higher bit-rate signals to traverse farther distances.

Spectral shaping provides greater capacity across cascaded ROADMs, resulting in increased spectral efficiency for super channels. Spectral shaping is critical in flexible grid systems because it allows carriers to be squeezed closer together to maximize capacity.

100G CFP-DCO digital coherent optical transceiver is a hot-pluggable CFP form-factor optical module designed for high-speed optical networking applications including 100-Gigabit Ethernet and OTU4. The CAUI and OTL4.10 electrical interface and MDIO management interface are built in the module.

Item	Description	Price
CFP	CFP,100GBASE-SR10, 100m/OM3 MMF, Cisco OEM CFP, 100G SR10, MMF, 300m/OM3, 400m/OM4, (w/o ref clock) CFP, 100G SR10, MMF, 300m/OM3, 400m/OM4, (with ref clock) CFP,LR4,103/112Gbps, SMF, 10km, LC, DDM, angled port CFP,ER4, 103/112Gbps, SMF, 40km, LC, DDM, direct port	POA
Coherent CFP	CFP,100G, Coherent, ZR with EDFA CFP, 100G, Coherent, ZR w/o EDFA CFP, Metro DWDM, Coherent with EDFA CFP, Metro DWDM, Coherent w/o EDFA CFP, Long-Haul DWDM, Coherent with EDFA CFP, Long-Haul DWDM, Coherent w/o EDFA	POA
CFP Adaptor	CFPtoQSFP28 Adapter, 100G, supports FEC	POA

Product Name	CFP DCO ZR ¹	CFP DCO MR ¹	CFP DCO LH ¹
Data Rate	100GE/OTU4	100GE/OTU4	100GE/OTU4
Application	120km DWDM/P2P	600km DWDM	2000km DWDM
CAUI-4 for 100GBE host interface	√	√	√
OTL4.4 for OTU4 host interface	√	√	√
Built-in OTN Processing	√	√	√
Interoperability with G.709 FEC	√	√	√
PRBS generation & detection for line/host interfaces	√	√	√
CFP MSA compliant	√	√	√

Note: Technical Specs and Data Sheets for DCO products are only provided under strict one way NDA.

1.6. CFP2



The CFP2 was specified by CFP MSA in a form factor of 1/2 in size of the CFP module. The module electrical interface has been generically specified to allow for supplier-specific customization around various 4 x 25Gbit/s interfaces, but it can also support 10x10Gbit/s, 4x25Gbit/s, 8x25Gbit/s, or 8x50Gbit/s lanes.

Arvensis Technology, CFP2 100Gbps LR4 and ER4 modules supports a link length of 10, 20, 25 and 40km on standard single-mode fibre (G.652) for 100G ETH and OTU4 112G applications. The 100Gb Ethernet signal is carried over four wavelengths with multiplexing and de-multiplexing of the four wavelengths managed within the device.

Arvensis Technology also offers adapters for CFP2 to QSFP28.

Item	Description	Price
CFP2	CFP2, 100GBASE SR10, 300m/OM3, 400m/OM4 MMF CFP2, LR4, 103/112Gbps, SMF, 20km, LC, DDM, direct port CFP2, ER4 Lite, 103/112Gbps, SMF, 25km, LC, DDM, direct port CFP2, ER4, 103/112Gbps, SMF, 40km, LC, DDM, direct port CFP2PAM4, 212.5Gbps, SMF, 10km, LC, DDM, direct port CFP2 PAM4, 212.5Gbps, SMF, 40km, LC, DDM, direct port CFP2,100GBASE-LR4 ,Receiver only (w/o TOSA), 100GE/OTU4, 10km, CFP2, 100GBASE LR4, DFB-based LAN-WDM Cooling transmitter, 100GE/OTU4, 10km, <-8.6dBm CFP2, LAN-WDM EML transmitter, PIN-base Integrated ROSA with SOA, 100GE/OTU4, 40km	POA
CFP2 Adaptor	CFP2toQSFP28 Adapter, 100G, without FEC, supports 100G QSFP28 LR4/ER4. Supports 100G QSFP28 SR4/PSM4/CWDM4/CLR4 when the 100GE network equipment's CFP2 port has FEC function	POA

1.7. CFP4



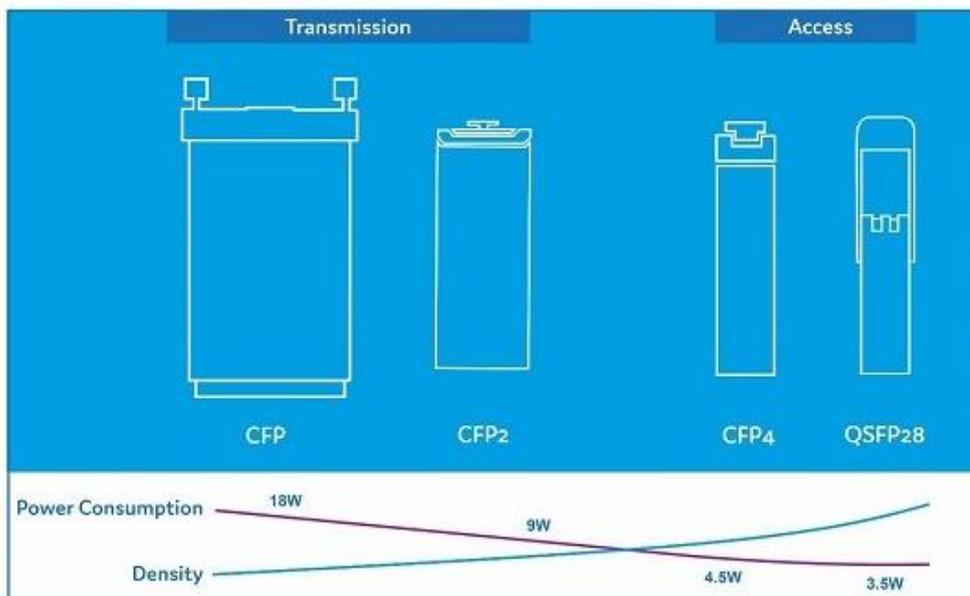
CFP4 form factor is the half size of CFP2 module, which is designed to support Single mode (SMF) and Multimode (MMF) optic fibre. CFP4 has 4x25G TX and RX I/O electrical pairs, so its nominal signalling lane rate is 25Gbit/s. The CFP4 electrical interface is specified to support both 4 x 25Gbit/s and 4 x 10Gbit/s interfaces. CFP MSA defines the CFP4 to apply for 40G/100G Ethernet, telecommunication and other applications. Arvensis Technology's CFP4 100Gbps LR4 and ER4 modules supports a link length of 10km, 20km, 25km and 40km on standard single-mode fibre (G.652) for 100G ETH and OTU4 112G applications.

Item	Description	Price
CFP4	CFP4, SR4 100m, DDM, pull tab CFP4, LR4, 103/112Gbps, SMF, 10km, LC, DDM, direct port CFP4, LR4, 103/112Gbps, SMF, 20km, LC, DDM, direct port CFP4, ER4 Lite, 103/112Gbps, SMF, 25km, LC, DDM, direct port CFP4, ER4, 103/112Gbps, SMF, 40km, LC, DDM, direct port	POA

100GbE Form-Factor Evolution(2)



	CFP	CFP2	CFP4	QSFP28
Width	82mm	41.5mm	21.7mm	18.35mm
Power	<24W	<12W	9W	3.5W
Electrical	10 x 10Gb/s CAUI 10	10 x 10Gb/s CAUI 10	4 x 25Gb/s CAUI 4	4 x 25Gb/s CAUI 4
Variants	SR10, LR4, ER4	SR10, LR4, ER4	SR4, LR4, (CWDM4)	SR4, LR4, (PSM4, CWDM4)
Medium	MMF, SMF	MMF, SMF	MMF, SMF	MMF, SMF



1.8. OSFP



A new pluggable form factor with eight high speed electrical lanes that will initially support 425Gbps (4*100G and/or 8x50G)
 Since the OSFP is slightly wider and deeper than the QSFP, it is possible to build an adaptor that supports existing 100G QSFP optics modules in an OSFP cage for OSFP to QSFP adapter for backward compatibility
 The latest release of 800Gbps optics that supports 2x 425Gbps or 850Gb on a single interface with an 8x 106.25Gbps (PAM4) optical and electrical interface with CMIS 4.0 Firmware is leading performance and low power consumption.
 Contact Arvensis Technology if you are interested to know more about OSFP's

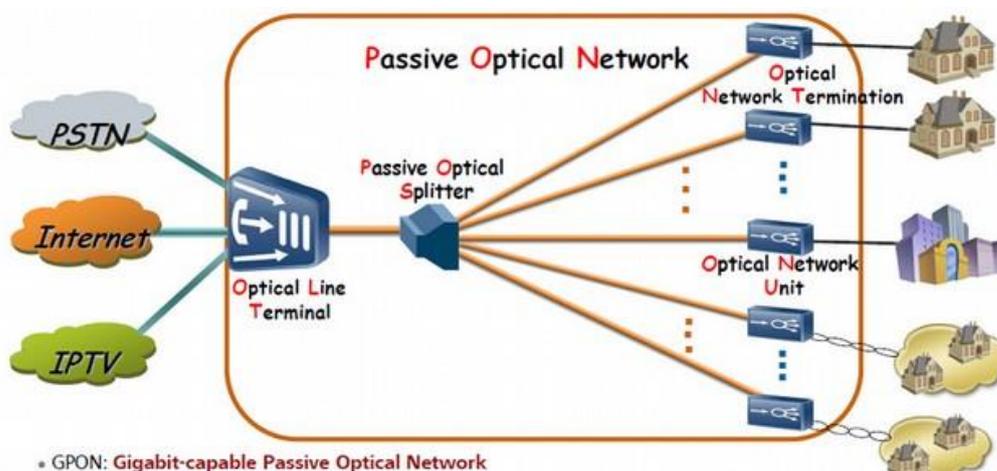
Item	Description	Price
OAFP	OSFP, 4x100G DR4, 4x100G 400GbE, 1310nm, SMF, 500m OSFP, 2x 200G FR4, 8*50G PAM4, SMF, 2km OSFP, 4x100G FR4, 4x100G 400GbE, SMF, 2km OSFP, 800G, DR8, 8x 100G, 1310nm, MPO, 500m OSFP, 8x 100G, FR1, 1310nm, MPO, 2km OSFP, 2x 400G, FR4, CWDM4, 2x CS, 2km OSFP, 2x 400G, FR1, CWDM4, 2x CS, 10km OSFP, 800G, FR8, LANWDM8, LC, 2km OSFP, 800G, FR8, LANWDM8, LC, 10km	POA

1.9. PON, GPON, EPON, GEPON



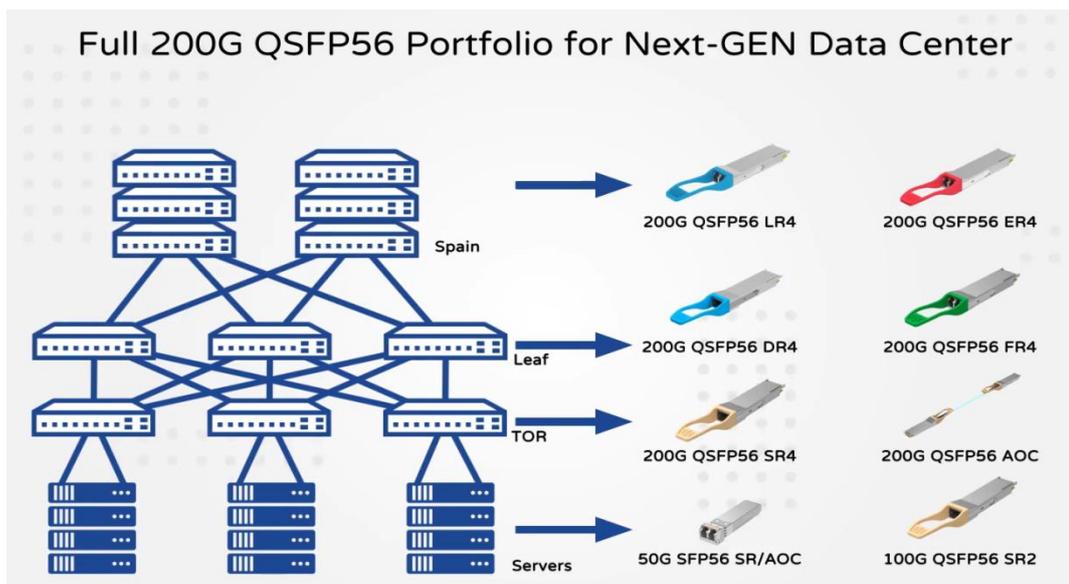
A Passive Optical Network (PON) is a point-to-multipoint fibre to the premises network architecture in which unpowered or passive optical splitters are used to enable a single fibre solution to serve to premises, typically 16-128.
 GPON, GEPON, XGSPON, EPON and others provide varying upstream and downstream bandwidth sector, GPON standard, SFP type OLT transceiver module.
 Arvensis Technology offer a 50+ PON transceiver range and have only listed some of the basic products below. For more options contact Arvensis Technology

Item	Description	Price
GPON	SFP GPON OLT B+, 20km, 1490nmT 2.488Gbps, 1310nmR 1.244Gbps SFP GPON OLT B+, 20km, 1490nmT 2.488Gbps, 1310nmR 1.244Gbps SFP GPON OLT C+, 20km, 1490nmT 2.488Gbps, 1310nmR 1.244Gbps SFP GPON ONU, B+, 1.25G, 1310nmT/1490nmR, TX Burst signal low active SFP GPON ONU, B+, 1.25G, 1310nmT/1490nmR, TX Burst signal low active XFP GPON, OLT N1, 1577nmT 9.953Gbps, 1270nmR 2.488Gbps XFP GPON, OLT N2, 1270nmT 2.488Gbps, 1577nmR 9.953Gbps,	POA



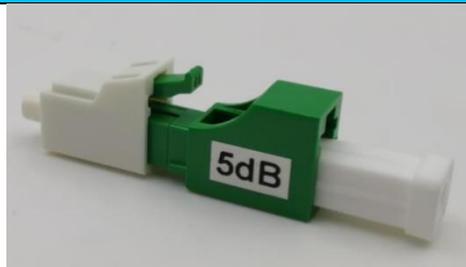
1.10. Other Transceivers		
Item	Description	Price
CPRI SFP and SFP+	CPRI OBSAI LTE SFP: Common Public Radio Interface (CPRI) standard defines the interface of base stations between the Radio Equipment Controllers (REC) standard, to local or remote radio units, known as Radio Equipment (RE). Wide range of options available.	POA
SMPTE SPF	Fibre Optic Transport of HD/SD-SDI It is becoming increasingly necessary and economically feasible to transport HD/SD-SDI signals over fibre instead of coaxial cable. Arvensis Technology can supply a wide range of transceivers. SMPTE 297-2006: This standard defines the fibre optic interface for the transmission and reception of SDI signals at various data rates: 3G ~ 12G SMPTE 259M: 143 through 360 Mbps SMPTE 344M: 540 Mbps SMPTE 292: 1.485 and 1.485/1.001 Gbps SMPTE 424M: 2.97 and 2.97/1.001 Gbps	POA
	Loopback and Test Boards for QSFP, QSFP+, SFP+, CSFP, XFP, CFP. Tuneable Board for DWDM tuneable XFP and SFP+ transceivers. Wide range of options. QSFP28, 100G Loopback Module	POA

1.11. Shipping and Freight		
	Shipping and Freight: Local stock volumes can be held for customers with an agreement in place. For large orders or project phasing please contact Arvensis Technology to discuss at the soonest to lock in your rates for the duration of your project and to secure your supply chain. Typical lead time is ~7-10 business days from receipt of a PO for non-forecasted orders, forecasted orders can be supplied in 2-5 business days in most cases. Contact Arvensis Technology to discuss how we can work with you to reduce your inventory holding, provide you with "just-in-time" supply chain solutions and reduce your expenditure network modules	POA



2. OPTICAL ATTENUATORS AND ADAPTERS

2.1. LC APC Plastic Body



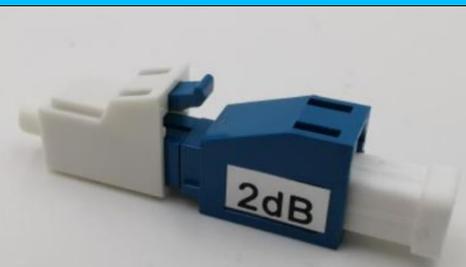
Our LC/APC attenuators have a ≥ 60 dB Return Loss (RL) with the following attenuation accuracy

- 1-9dB – ≤ 0.5 dB
- 10-30dB – $\leq 10\%$ of the attenuators value

Single Mode: 1310nm/1550nm
 Input Power (Max): 200mW
 Durability: < 0.20 dB typical, 1000 mating's
 Operating temp: $-20 \sim +75^\circ\text{C}$

Item	Description	Price (ea)
LC/APC F-M	Attenuation value: 1, 2, 3, 5, 8, 10, 15, 20, 25, 30 dB	POA

2.2. LC UPC Plastic Body



Our LC/UPC attenuators have a ≥ 50 dB Return Loss (RL) with the following attenuation accuracy

- 1-9dB – ≤ 0.5 dB
- 10-30dB – $\leq 10\%$ of the attenuators value

Single Mode: 1310nm/1550nm
 Input Power (Max): 200mW
 Durability: < 0.20 dB typical, 1000 mating's
 Operating temp: $-20 \sim +75^\circ\text{C}$

Item	Description	Price
LC/UPC F-M	Attenuation value: 1, 2, 3, 5, 8, 10, 15, 20, 25, 30 dB	POA

2.3. SC APC Metal Body



Our SC/APC attenuators have a ≥ 60 dB Return Loss (RL) with the following attenuation accuracy

- 1-9dB – ≤ 0.5 dB
- 10-30dB – $\leq 10\%$ of the attenuators value

Single Mode: 1310nm/1550nm
 Input Power (Max): 200mW
 Durability: < 0.20 dB typical, 1000 mating's
 Operating temp: $-20 \sim +75^\circ\text{C}$

Item	Description	Price
SC/APC F-M	Attenuation value: 1, 2, 3, 5, 8, 10, 15, 20, 30 dB	POA

2.4. SC UPC Metal Body



Our SC/UPC attenuators have a ≥ 50 dB Return Loss (RL) with the following attenuation accuracy

- 1-9dB – ≤ 0.5 dB
- 10-30dB – $\leq 10\%$ of the attenuators value

Single Mode: 1310nm/1550nm
 Input Power (Max): 200mW
 Durability: < 0.20 dB typical, 1000 mating's
 Operating temp: $-20 \sim +75^\circ\text{C}$

Item	Description	Price
SC/UPC F-M	Attenuation value: 1, 2, 3, 5, 8, 10, 15, 20, 30 dB	POA

Don't see what you need? Contact Arvensis Technology.
 We can tailor orders to your requirements.
 Do you need a specialist attenuation kit for lab testing?
 We can supply specialist kitting solutions for R&D entities and Tier 1 providers

2.5. Hybrid Adapters (F-F)					
Photo	Description	Price	Photo	Description	Price
	SC-LC Adapter	POA		FC-LC Adapter	POA
	ST-LC Adapter	POA		SC-FC Adapter	POA
	SC-ST Adapter	POA		FC-ST Adapter	POA
	SC-LC Duplex Adapter	POA		SC-FC Duplex Adapter	POA
	SC-ST Duplex Adapter	POA		FC-ST Duplex Adapter	POA

2.6. Hybrid Adapter (M-F)					
Photo	Description	Price	Photo	Description	Price
	LC (Female) - SC (Male) Adapter	POA		LC (Female) - SC (Male) Adapter MM	POA
	LC (Female) - SC/APC (Male) Adapter	POA		LC (Female) - SC/APC (Male) Adapter MM	POA
	LC (Female) - SC/APC (Male) Adapter MM OM3	POA		LC (Female) - SC (Male) Adapter SM Duplex	POA
	LC (Female) - FC (Male) Adapter	POA		LC (Female) - ST (Male) Adapter	POA
	SC (Female) - LC (Male) Adapter	POA		SC (Female) - FC (Male) Adapter	POA
	SC/APC (Female) - FC/APC (Male) Adapter	POA		SC (Female) - ST (Male) Adapter	POA
	FC (Female) - SC (Male) Adapter	POA		FC/APC (Female) - SC/APC (Male) Adapter	POA
	FC (Female) - ST (Male) Adapter	POA		FC (Female) - LC (Male) Adapter	POA
	ST (Female) -SC (Male) Male Adapter	POA		ST (Female) -SC (Male) Male Adapter Duplex	POA
	ST (Female) -SC (Male) Male Adapter MM	POA		ST (Female) -LC (Male) Male Adapter	POA

	ST (Female) -FC (Male) Male Adapter	POA		SC -E2000/UPC Adapter	POA
	SC/APC -E2000/APC Adapter	POA		SC/UPC -E2000/APC Adapter	POA

2.7. Bulkhead Adapter (F-F)					
Photo	Description	Price	Photo	Description	Price
	SC: Simplex adapter with Flange. Colours: Blue, Green, Beige, Aqua and Violet	POA		SC: Simplex adapter without Flange. Colours: Blue, Green, Beige, Aqua and Violet	POA
	SC: Duplex adapter with Flange. Colours: Blue, Green, Beige, Aqua and Violet	POA		SC: Duplex adapter without Flange. Colours: Blue, Green, Beige, Aqua and Violet	POA
	SC/UPC: Simplex metal adapter with Flange. Colour: Black dust cover	POA		SC/APC: Simplex metal adapter with Flange. Colour: Green	POA
	SC/UPC: Duplex metal adapter with Flange. Colour: Black dust cover	POA		SC/UPC: Simplex adapter with Flange and shutter. Colour: Blue	POA
	SC/APC: Simplex adapter with flange and shutter. Colour: Green	POA		SC/UPC: Simplex adapter without flange and shutter. Colour: Blue	POA
	SC/APC: Simplex adapter without Flange and shutter. Colour: Green	POA		SC/UPC SM SX metal avoid laser adaptor with flange Colour: Blue	POA
	SC/APC SM SX metal Avoid Laser Adaptor With Flange Colour: Green	POA		SC/UPC SM SX metal avoid laser adaptor with flange Colour: Blue	POA
	SC/PC SM SX metal avoid laser adaptor with flange Colour: Beige	POA		LC/UPC SM simplex adaptor, without flange Colour: Blue	POA
	LC/APC SM simplex adaptor, without flange Colour: Green	POA		LC Duplex adaptor, with flange Colours: Blue, Green, Beige, Aqua, Violet	POA
	LC Quad adapter, with flange, Colours: Blue, Green, Beige, Aqua, Violet	POA		LC/UPC, Duplex adapter, with flange, Metal	POA
	LC/UPC, Quad adapter, with flange, Metal	POA		FC/UPC (square) SM, simplex adapter (zinc alloy)	POA
	FC/UPC (rectangle) SM, simplex adapter (zinc alloy)	POA		FC/UPC (small D) SM, simplex adapter (zinc alloy) Dust cover either red or white	POA
	FC/UPC (big D) SM, simplex adapter (zinc alloy) Dust cover either red or white	POA		FC/APC (square) SM, simplex Adapter (zinc alloy)	POA

	FC/UPC (rectangle) SM, duplex adapter (zinc alloy)	POA		ST/UPC SM, simplex adapter (zinc alloy)	POA
	ST/UPC MM, simplex adapter, (zinc alloy)	POA		ST/UPC SM, duplex adapter, (zinc alloy)	POA
	ST/UPC MM, duplex adapter, (zinc alloy)	POA	For all other connectors not listed, please contact Arvensis Technology directly as we can supply.		

For bulk pricing please contact Arvensis Technology directly: sales@arvensis-technology.com

If you don't see what you are looking for please let us know.

3. FIBRE PATCH CABLES

3.1. Simplex Single Mode LC/APC–LC/APC



Our LC/APC patch cables have a ≥ 60 dB Return Loss (RL) with the following specification:
 $\varnothing 2.0$ mm. G657A2/LSZH 1-piece connector
 Grade C Insertion Loss (IL): ≤ 0.3 dB
 Grade A Insertion Loss (IL): ≤ 0.15 dB
 Single Mode: 1310nm/1550nm
 Durability: < 0.20 dB typical, 1000 mating's
 Operating temp: $-40 \sim +85^{\circ}\text{C}$

Item	Description	Price
1m	SimplexSM LC/LC APC, Grade-C SimplexSM LC/LC APC, Grade-A	POA
2m	SimplexSM LC/LC APC, Grade-C SimplexSM LC/LC APC, Grade-A	POA
3m	SimplexSM LC/LC APC, Grade-C SimplexSM LC/LC APC, Grade-A	POA
5m	SimplexSM LC/LC APC, Grade-C SimplexSM LC/LC APC, Grade-A	POA
10m	SimplexSM LC/LC APC, Grade-C SimplexSM LC/LC APC, Grade-A	POA

3.2. Duplex Single Mode LC/APC–LC/APC



Our LC/APC patch cables have a ≥ 60 dB Return Loss (RL) with the following specification:
 $\varnothing 2.0$ mm. G657A2/LSZH 1-piece connector
 Grade C Insertion Loss (IL): ≤ 0.3 dB
 Grade A Insertion Loss (IL): ≤ 0.15 dB
 Single Mode: 1310nm/1550nm
 Durability: < 0.20 dB typical, 1000 mating's
 Operating temp: $-40 \sim +85^{\circ}\text{C}$

Item	Description	Price
1m	DuplexSM LC/LC APC, Grade-C DuplexSM LC/LC APC, Grade-A	POA
2m	DuplexSM LC/LC APC, Grade-C DuplexSM LC/LC APC, Grade-A	POA
3m	DuplexSM LC/LC APC, Grade-C DuplexSM LC/LC APC, Grade-A	POA
5m	DuplexSM LC/LC APC, Grade-C DuplexSM LC/LC APC, Grade-A	POA
10m	DuplexSM LC/LC APC, Grade-C DuplexSM LC/LC APC, Grade-A	POA

3.3. Simplex Single Mode LC/APC–LC/UPC



Our LC/APC –LC/UPC patch cables have a $\geq 60\text{dB}/\geq 50\text{dB}$ Return Loss (RL) with the following specification:
 $\varnothing 2.0\text{mm}$. G657A2/LSZH 1-piece connector
 Grade A Insertion Loss (IL): $\leq 0.15\text{dB}$
 Single Mode: 1310nm/1550nm
 Durability: $< 0.20\text{dB}$ typical, 1000 mating's
 Operating temp: $-40\sim +85^\circ\text{C}$

Item	Description	Price
1m	SimplexSM LCA/LCU, Grade-A	POA
2m	SimplexSM LCA/LCU, Grade-A	POA
3m	SimplexSM LCA/LCU, Grade-A	POA
5m	SimplexSM LCA/LCU, Grade-A	POA
10m	SimplexSM LCA/LCU, Grade-A	POA

3.4. Duplex Single Mode LC/APC–LC/UPC



Our LC/APC –LC/UPC patch cables have a $\geq 60\text{dB}/\geq 50\text{dB}$ Return Loss (RL) with the following specification:
 $\varnothing 2.0\text{mm}$. G657A2/LSZH 1-piece connector
 Grade A Insertion Loss (IL): $\leq 0.15\text{dB}$
 Single Mode: 1310nm/1550nm
 Durability: $< 0.20\text{dB}$ typical, 1000 mating's
 Operating temp: $-40\sim +85^\circ\text{C}$

Item	Description	Price
1m	DuplexSM LCA/LCU, Grade-A	POA
2m	DuplexSM LCA/LCU, Grade-A	POA
3m	DuplexSM LCA/LCU, Grade-A	POA
5m	DuplexSM LCA/LCU, Grade-A	POA
10m	DuplexSM LCA/LCU, Grade-A	POA

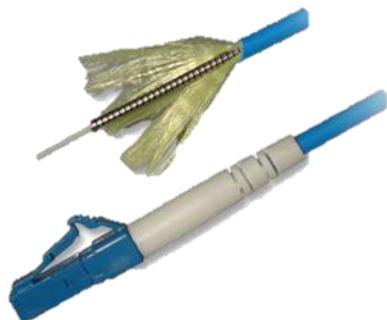
3.5. Duplex Armoured Patch Cable



Our Armoured patch cable is available in any configuration LC, SC, ST, FC, MU and UPC or APC polish, 1 or 2 tube constructions.
 Cable Weight: $\sim 10.5\text{kg}/\text{km}$
 $\varnothing 3.0\text{mm}$. G6552D; G657A/LSZH or G657B3 (bend insensitive)
 Insertion Loss (IL): $\leq 0.3\text{dB}$
 Return Loss (RL): $\geq 60\text{dB}/\geq 50\text{dB}$
 Single Mode: 1310nm/1550nm
 Durability: $< 0.20\text{dB}$ typical, 1000 mating's
 Operating temp: $-20\sim +80^\circ\text{C}$
 Tensile Strength: 400N (short duration)
 Tensile Strength: 200N (long duration)
 Lateral Compressive Strength: $\geq 3000\text{N}/100\text{mm}$
 Bend Radius: $\geq 30\text{D}$ (SM and MM)

Item	Description	Price
1m	Duplex SM LCU/LCU G657B3 single tube patch cable	POA
2m	Duplex SM LCU/LCU G657B3 single tube patch cable	POA
3m	Duplex SM LCU/LCU G657B3 single tube patch cable	POA
5m	Duplex SM LCU/LCU G657B3 single tube patch cable	POA
10m	Duplex SM LCU/LCU G657B3 single tube patch cable	POA

3.6. Simplex Armoured Patch Cable



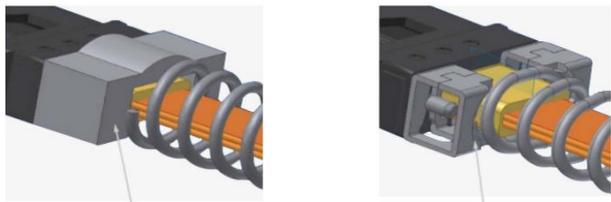
Our Armoured patch cable is available in any configuration LC, SC, ST, FC, MU and UPC or APC polish.
 Cable Weight: ~10.5kg/km
 Ø3.0mm. G6552D; G657A/LSZH or G657B3 (bend insensitive)
 Insertion Loss (IL): ≤0.3dB
 Return Loss (RL): ≥60dB/≥50dB
 Single Mode: 1310nm/1550nm
 Durability: <0.20dB typical, 1000 mating's
 Operating temp: -20~+80°C
 Tensile Strength: 400N (short duration)
 Tensile Strength: 200N (long duration)
 Lateral Compressive Strength: ≥3000N/100mm
 Bend Radius: ≥30D (SM and MM)

Item	Description	Price
1m	Simplex SM LCU/LCU G657B3 single tube patch cable	POA
2m	Simplex SM LCU/LCU G657B3 single tube patch cable	POA
3m	Simplex SM LCU/LCU G657B3 single tube patch cable	POA
5m	Simplex SM LCU/LCU G657B3 single tube patch cable	POA
10m	Simplex SM LCU/LCU G657B3 single tube patch cable	POA

Available for Multi-Mode Fibre OM3 and OM4 and with SC, MU, FC and ST connectors with a UPC or APC finish

Please enquire with Arvensis Technology for further details.

Forecast your project orders to ensure no delays to your project or supply chain requirements

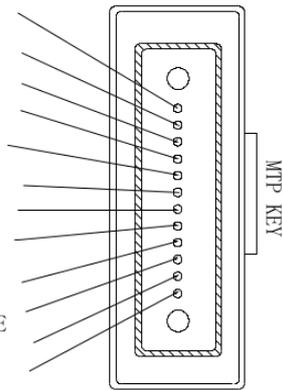
3.7. MPO vs. MTP Differences	
MPO	MTP
<p>MPO or Multi-fibre Push On cables are capped with MPO connectors at either end. MPO connector is a connector for ribbon cables with at least 8 fibres, which is designed to provide multi-fibre connectivity in one connector to support high bandwidth and high-density cabling system applications. It is compliant with the IEC 61754-7 standard. At present, the most common fibre counts are 8, 12, 16, and 24. 32, 48, and 72 fibre counts are also possible in limited applications.</p>	<p>MTP® or Multi-fibre Pull Off cables are equipped with MTP® connectors at either end. MTP® connector is a trademark by US Conec for a version of the MPO connector with improved specifications. So MTP® connectors are fully compliant with all generic MPO connectors and can interconnect directly with other MPO based infrastructures. However, the MTP® connector is a multiple engineered product enhancement to improve mechanical and optical performance when compared to generic MPO connectors.</p>
<p>MPO connector is usually equipped with inferior plastic pin clamps, which may lead to effortless breaking of pins with constant cable mating</p>	<p>The MTP® connector has a metal pin clamp to ensure a strong clasp on the pins and minimize any inadvertent breaking when mating connectors.</p>
 <p>MPO Plastic Pin Clamp MTP Mental Pin Clamp</p>	<p>In the MTP® connector, the oval spring is used to maximize the gap between fibre ribbon and spring, which can protect the fibre ribbon from damages during inserting. The MTP® design includes a recessed pin clamp and oval spring will ensure a secure spring seat, and greater clearance between the spring and the ribbon cable in order to reduce the risk of damage to the cable.</p>
<p>The MPO connector is not manufactured with the floating ferrule.</p>	<p>A floating ferrule is adopted in an MTP® cable design for improving mechanical performance. In other words, the floating ferrule of the MTP® connector can float inside to keep physical contact over a mated pair under an applied load. The floating ferrule feature was particularly important for applications in which the cable plugs directly into an active Tx/Rx device and was one of the primary reasons that the MTP® became the connector of choice for emerging parallel optics Tx/Rx applications.</p>
<p>Guide Pins: the chamfered shaped guide pins adopted by MPO connectors will produce more debris when used. Typically guide hole damage may be evident after only 50 mating's</p>	<p>Guide Pins: The MTP® connector uses tightly held tolerance stainless steel elliptical guide pin tips to reduce the amount of debris that may fall into the guide pin holes or on the ferrule end face. Rated for 500 mating's before any damage may become evident</p>
<p>The MPO connector has been recognized as an international standard in network architecture for many years.</p>	<p>MTP® connectors are the advanced version of MPO with improvements to minimize issues like optical loss, dropped packets, and so on. MTP® connectors in MTP® cables are designed to ensure precision alignment of the male and female sides, which will help to reduce the insert loss and return loss when transmitting the data in high-density cabling systems. Furthermore, MTP® insertion loss rates have continued to improve, now rivalling loss rates that single-fibre connectors saw just a few years ago.</p>

3.8. MTP and MPO Cable Polarity

Method A or A-Polarity

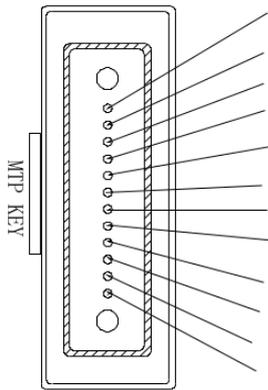
Key up

- 1、 BLUE
- 2、 ORANGE
- 3、 GREEN
- 4、 BROWN
- 5、 GRAY
- 6、 WHITE
- 7、 RED
- 8、 BLACK
- 9、 YELLOW
- 10、 PURPLE
- 11、 PINK
- 12、 AQUA



Key down

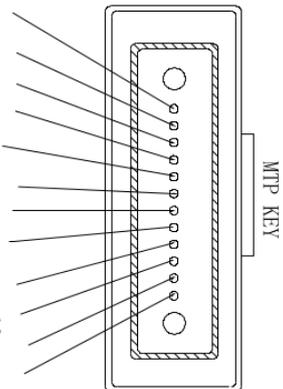
- 1、 BLUE
- 2、 ORANGE
- 3、 GREEN
- 4、 BROWN
- 5、 GRAY
- 6、 WHITE
- 7、 RED
- 8、 BLACK
- 9、 YELLOW
- 10、 PURPLE
- 11、 PINK
- 12、 AQUA



Method B or B-Polarity

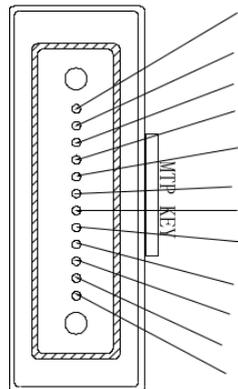
Key up

- 1、 BLUE
- 2、 ORANGE
- 3、 GREEN
- 4、 BROWN
- 5、 GRAY
- 6、 WHITE
- 7、 RED
- 8、 BLACK
- 9、 YELLOW
- 10、 PURPLE
- 11、 PINK
- 12、 AQUA



Key UP

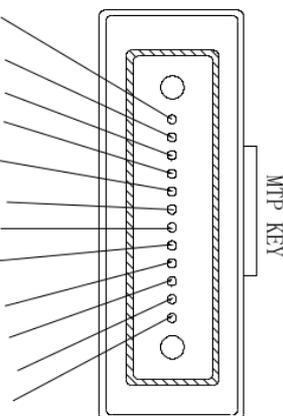
- 12、 AQUA
- 11、 PINK
- 10、 PURPLE
- 9、 YELLOW
- 8、 BLACK
- 7、 RED
- 6、 WHITE
- 5、 GRAY
- 4、 BROWN
- 3、 GREEN
- 2、 ORANGE
- 1、 BLUE



Method C or C-Polarity

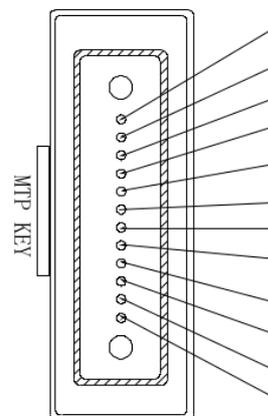
Key up

- 1、 BLUE
- 2、 ORANGE
- 3、 GREEN
- 4、 BROWN
- 5、 GRAY
- 6、 WHITE
- 7、 RED
- 8、 BLACK
- 9、 YELLOW
- 10、 PURPLE
- 11、 PINK
- 12、 AQUA



Key down

- 2、 ORANGE
- 1、 BLUE
- 4、 BROWN
- 3、 GREEN
- 6、 WHITE
- 5、 GRAY
- 8、 BLACK
- 7、 RED
- 10、 PURPLE
- 9、 YELLOW
- 12、 AQUA
- 11、 PINK



Specify the required polarity at the time of placing your order. The B-Polarity method is the most commonly used and is the default for any order unless specified otherwise.

3.9. MPO-MPO MMF OM3 12 Core Trunk Cable



MPO(F) - MPO(F) 12 core Patch or Trunk cable
 Multi-Mode 50/125, OM3, LSZH, 3.0mm diameter with Standard MPO connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 12 core Trunk Patch Cable OM3	POA
2m	MPO-MPO 12 core Trunk Patch Cable OM3	POA
3m	MPO-MPO 12 core Trunk Patch Cable OM3	POA
5m	MPO-MPO 12 core Trunk Patch Cable OM3	POA
10m	MPO-MPO 12 core Trunk Patch Cable OM3	POA
15m	MPO-MPO 12 core Trunk Patch Cable OM3	POA
20m	MPO-MPO 12 core Trunk Patch Cable OM3	POA

3.10. MPO-MPO MMF OM4 12 Core Trunk Cable



MPO(F) - MPO(F) 12 core Patch or Trunk cable
 Multi-Mode 50/125, OM4, LSZH, 3.0mm diameter, Standard MPO connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 12 core Trunk Patch Cable OM4	POA
2m	MPO-MPO 12 core Trunk Patch Cable OM4	POA
3m	MPO-MPO 12 core Trunk Patch Cable OM4	POA
5m	MPO-MPO 12 core Trunk Patch Cable OM4	POA
10m	MPO-MPO 12 core Trunk Patch Cable OM4	POA
15m	MPO-MPO 12 core Trunk Patch Cable OM4	POA
20m	MPO-MPO 12 core Trunk Patch Cable OM4	POA

3.11. MPO-MPO SMF 12 Core Trunk Cable



MPO(F) - MPO(F) 12 core Patch or Trunk cable
 Single-Mode 9/125, G625D, LSZH, 3.0mm diameter, Standard MPO connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.7dB (Elite ≤ 0.35dB, typical ≤ 0.15dB)
 RL (dB) ≥ 60dB (Elite ≥ 65dB)
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 12 core Trunk Patch Cable SMF	POA
2m	MPO-MPO 12 core Trunk Patch Cable SMF	POA
3m	MPO-MPO 12 core Trunk Patch Cable SMF	POA
5m	MPO-MPO 12 core Trunk Patch Cable SMF	POA
10m	MPO-MPO 12 core Trunk Patch Cable SMF	POA
15m	MPO-MPO 12 core Trunk Patch Cable SMF	POA
20m	MPO-MPO 12 core Trunk Patch Cable SMF	POA

3.12.MTP-MTP MMF OM3 12 Core Trunk Cable



MTP(F) - MTP(F) 12 core Patch or Trunk cable
 Multi-Mode 50/125, OM3, LSZH, 3.0mm diameter, Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
2m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
3m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
5m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
10m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
15m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
20m	MTP-MTP 12 core Trunk Patch Cable OM3	POA

3.13.MTP-MTP MMF OM4 12 Core Trunk Cable



MPO(F) - MPO(F) 12 core Patch or Trunk cable
 Multi-Mode 50/125, LSZH, 3.0mm diameter, Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 12 core Trunk Patch Cable OM4	POA
2m	MTP-MTP 12 core Trunk Patch Cable OM4	POA
3m	MTP-MTP 12 core Trunk Patch Cable OM4	POA
5m	MTP-MTP 12 core Trunk Patch Cable OM4	POA
10m	MTP-MTP 12 core Trunk Patch Cable OM4	POA
15m	MTP-MTP 12 core Trunk Patch Cable OM4	POA
20m	MTP-MTP 12 core Trunk Patch Cable OM4	POA

3.14.MTP-MTP SMF 12 Core Trunk Cable



MPO(F) - MPO(F) 12 core Patch or Trunk cable
 Single-Mode 9/125, G625D, LSZH, 3.0mm diameter, Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.7dB (Elite ≤ 0.35dB, typical ≤ 0.15dB)
 RL (dB) ≥ 60dB (Elite ≥ 65dB)
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 12 core Trunk Patch Cable SMF	POA
2m	MTP-MTP 12 core Trunk Patch Cable SMF	POA
3m	MTP-MTP 12 core Trunk Patch Cable SMF	POA
5m	MTP-MTP 12 core Trunk Patch Cable SMF	POA
10m	MTP-MTP 12 core Trunk Patch Cable SMF	POA
15m	MTP-MTP 12 core Trunk Patch Cable SMF	POA
20m	MTP-MTP 12 core Trunk Patch Cable SMF	POA

3.15.MPO-MPO MMF OM3 24 Core Trunk Cable



MPO(F) - MPO(F) 24 core Patch or Trunk cable
 Multi-Mode 50/125, OM3, LSZH, 3.0mm diameter, Standard MPO connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 24 core Trunk Patch Cable OM3	POA
2m	MPO-MPO 24 core Trunk Patch Cable OM3	POA
3m	MPO-MPO 24 core Trunk Patch Cable OM3	POA
5m	MPO-MPO 24 core Trunk Patch Cable OM3	POA
10m	MPO-MPO 24 core Trunk Patch Cable OM3	POA
15m	MPO-MPO 24 core Trunk Patch Cable OM3	POA
20m	MPO-MPO 24 core Trunk Patch Cable OM3	POA

3.16.MPO-MPO MMF OM4 24 Core Trunk Cable



MTP(F) - MTP(F) 24 core Patch or Trunk cable
 Multi-Mode 50/125, OM4, LSZH, 3.0mm diameter, Standard MPO connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 24 core Trunk Patch Cable OM4	POA
2m	MPO-MPO 24 core Trunk Patch Cable OM4	POA
3m	MPO-MPO 24 core Trunk Patch Cable OM4	POA
5m	MPO-MPO 24 core Trunk Patch Cable OM4	POA
10m	MPO-MPO 24 core Trunk Patch Cable OM4	POA
15m	MPO-MPO 24 core Trunk Patch Cable OM4	POA
20m	MPO-MPO 24 core Trunk Patch Cable OM4	POA

3.17.MPO-MPO SMF 24 Core Trunk Cable



MPO(F) - MPO(F) 24 core Patch or Trunk cable
 Single-Mode 9/125, G625D, LSZH, 3.0mm diameter, Standard MPO connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.7dB (Elite ≤ 0.35dB, typical ≤ 0.15dB)
 RL (dB) ≥ 60dB (Elite ≥ 65dB)
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 24 core Trunk Patch Cable SMF	POA
2m	MPO-MPO 24 core Trunk Patch Cable SMF	POA
3m	MPO-MPO 24 core Trunk Patch Cable SMF	POA
5m	MPO-MPO 24 core Trunk Patch Cable SMF	POA
10m	MPO-MPO 24 core Trunk Patch Cable SMF	POA
15m	MPO-MPO 24 core Trunk Patch Cable SMF	POA
20m	MPO-MPO 24 core Trunk Patch Cable SMF	POA

3.18.MTP-MTP MMF OM3 24 Core Trunk Cable



MTP(F) - MTP(F) 24 core Patch or Trunk cable
 Multi-Mode 50/125, OM3, LSZH, 3.0mm diameter, Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
2m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
3m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
5m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
10m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
15m	MTP-MTP 12 core Trunk Patch Cable OM3	POA
20m	MTP-MTP 12 core Trunk Patch Cable OM3	POA

3.19.MTP-MTP MMF OM4 24 Core Trunk Cable



MTP(F) - MTP(F) 24 core Patch or Trunk cable
 Multi-Mode 50/125, OM4, LSZH, 3.0mm diameter, Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical)
 RL (dB) ≥ 20dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 24 core Trunk Patch Cable OM4	POA
2m	MTP-MTP 24 core Trunk Patch Cable OM4	POA
3m	MTP-MTP 24 core Trunk Patch Cable OM4	POA
5m	MTP-MTP 24 core Trunk Patch Cable OM4	POA
10m	MTP-MTP 24 core Trunk Patch Cable OM4	POA
15m	MTP-MTP 24 core Trunk Patch Cable OM4	POA
20m	MTP-MTP 24 core Trunk Patch Cable OM4	POA

3.20.MTP-MTP SMF 24 Core Trunk Cable



MTP(F) - MTP(F) 24 core Patch or Trunk cable
 Single-Mode 9/125, G625D, LSZH, 3.0mm diameter, Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.7dB (Elite ≤ 0.35dB, typical ≤ 0.15dB)
 RL (dB) ≥ 60dB (Elite ≥ 65dB)
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 24 core Trunk Patch Cable SMF	POA
2m	MTP-MTP 24 core Trunk Patch Cable SMF	POA
3m	MTP-MTP 24 core Trunk Patch Cable SMF	POA
5m	MTP-MTP 24 core Trunk Patch Cable SMF	POA
10m	MTP-MTP 24 core Trunk Patch Cable SMF	POA
15m	MTP-MTP 24 core Trunk Patch Cable SMF	POA
20m	MTP-MTP 24 core Trunk Patch Cable SMF	POA

3.21.MPO-LC MMF OM3 12 Core Breakout Cable



MPO (F) – LC/UPC Fan-out cable. MPO 12 core standard connector with 6x LC Duplex connectors. Multi-Mode 50/125, OM3, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 20dB. LC ≥ 30dB

Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA
2m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA
3m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA
5m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA
10m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA
15m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA
20m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM3	POA

3.22.MPO-LC MMF OM4 12 Core Breakout Cable



MPO (F) – LC/UPC Fan-out cable. MPO 12 core standard connector with 6x LC Duplex connectors. Multi-Mode 50/125, OM4, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 20dB. LC ≥ 30dB

Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA
2m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA
3m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA
5m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA
10m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA
15m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA
20m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC OM4	POA

3.23.MPO-LC MMF SM 12 Core Breakout Cable



MPO (F) – LC/UPC Fan-out cable. MPO 12 core standard connector with 6x LC Duplex connectors. Single-Mode 9/125, G652D, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (typical ≤ 0.15dB). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 60dB (Elite ≥ 65dB). LC RL (dB) ≥ 50dB (UPC), ≥ 65dB (APC)

Available with the Elite and LC/A connectors for improved performance

Item	Description	Price
1m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA
2m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA
3m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA
5m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA
10m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA
15m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA
20m	MPO-MPO 12 Core Fan-out Cable MMF LC/UPC SM	POA

3.24.MTP-LC MMF OM3 12 Core Breakout Patch Cable



MTP (F) – LC/UPC Breakout cable. MTP 12 core standard connector with 6x LC Duplex connectors. Multi-Mode 50/125, OM3, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 20dB. LC ≥ 30dB

Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA
2m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA
3m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA
5m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA
10m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA
15m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA
20m	MTP-LC 12 Breakout Cable MMF LC/UPC OM3	POA

3.25.MTP-LC MMF OM4 12 Core Breakout Cable



MTP (F) – LC/UPC Breakout cable. MTP 12 core Standard connector with 6x LC Duplex connectors. Multi-Mode 50/125, OM4, LSZH, 3.0mm cable with each Breakout 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 20dB. LC ≥ 30dB

Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA
2m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA
3m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA
5m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA
10m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA
15m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA
20m	MTP-LC 12 Breakout Cable MMF LC/UPC OM4	POA

3.26.MTP-LC MMF SM 12 Core Breakout Cable



MTP (F) – LC/UPC Breakout cable. MTP 12 standard connector with 6x LC Duplex connectors. Single-Mode 9/125, G652D, LSZH, 3.0mm cable with each Breakout 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

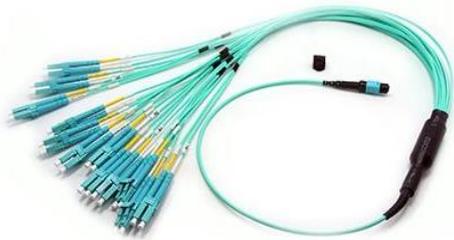
IL (dB) ≤ 0.35dB (typical ≤ 0.15dB). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 60dB (Elite ≥ 65dB). LC RL (dB) ≥ 50dB (UPC), ≥ 65dB (APC)

Available with the Elite and LC/A connectors for improved performance

Item	Description	Price
1m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA
2m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA
3m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA
5m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA
10m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA
15m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA
20m	MTP-LC 12 Breakout Cable MMF LC/UPC SM	POA

3.27.MPO-LC MMF OM3 24 Core Breakout Cable



MPO (F) – LC/UPC Fan-out cable. MPO 24 standard connector with 12x LC Duplex connectors. Multi-Mode 50/125, OM3, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB
 RL (dB) ≥ 20dB. LC ≥ 30dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA
2m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA
3m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA
5m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA
10m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA
15m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA
20m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM3	POA

3.28.MPO-LC MMF OM4 24 Core Breakout Cable



MPO (F) – LC/UPC Fan-out cable. MPO 24 standard connector with 12x LC Duplex connectors. Multi-Mode 50/125, OM4, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB
 RL (dB) ≥ 20dB. LC ≥ 30dB
 Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA
2m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA
3m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA
5m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA
10m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA
15m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA
20m	MTP-MTP 24 Fan-out Cable MMF LC/UPC OM4	POA

3.29.MPO-LC MMF SM 24 Core Breakout Cable



MPO (F) – LC/UPC Fan-out cable. MPO 24 standard connector with 12x LC Duplex connectors. Single-Mode 9/125, G652D, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity
 For other lengths not listed please contact Arvensis Technology with your requirements
 IL (dB) ≤ 0.35dB (typical ≤ 0.15dB). LC IL (dB) ≤ 0.2dB
 RL (dB) ≥ 60dB (Elite ≥ 65dB). LC RL (dB) ≥ 50dB (UPC), ≥ 65dB (APC)
 Available with the Elite and LC/A connectors for improved performance

Item	Description	Price
1m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA
2m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA
3m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA
5m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA
10m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA
15m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA
20m	MTP-MTP 24 Fan-out Cable MMF LC/UPC SM	POA

3.30.MTP-LC MMF OM3 24 Core Breakout Cable



MTP (F) – LC/UPC Breakout cable. MTP 24 core standard connector with 6x LC Duplex connectors. Multi-Mode 50/245, OM3, LSZH, 3.0mm cable with each fan-out 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 20dB. LC ≥ 30dB

Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA
2m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA
3m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA
5m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA
10m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA
15m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA
20m	MTP-LC 24 Breakout Cable MMF LC/UPC OM3	POA

3.31.MTP-LC MMF OM4 24 Core Breakout Cable



MTP (F) – LC/UPC Breakout cable. MTP 24 core Standard connector with 6x LC Duplex connectors. Multi-Mode 50/245, OM4, LSZH, 3.0mm cable with each Breakout 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (0.15dB typical). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 20dB. LC ≥ 30dB

Also available to order with the Elite connector for improved performance

Item	Description	Price
1m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA
2m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA
3m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA
5m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA
10m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA
15m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA
20m	MTP-LC 24 Breakout Cable MMF LC/UPC OM4	POA

3.32.MTP-LC MMF SM 24 Core Breakout Cable



MTP (F) – LC/UPC Breakout cable. MTP 24 core standard connector with 6x LC Duplex connectors. Single-Mode 9/245, G652D, LSZH, 3.0mm cable with each Breakout 2.0mm diameter, with 0.5m length. Standard MTP connector with standard routing and B-Polarity

For other lengths not listed please contact Arvensis Technology with your requirements

IL (dB) ≤ 0.35dB (typical ≤ 0.15dB). LC IL (dB) ≤ 0.2dB

RL (dB) ≥ 60dB (Elite ≥ 65dB). LC RL (dB) ≥ 50dB (UPC), ≥ 65dB (APC)

Available with the Elite and LC/A connectors for improved performance

Item	Description	Price
1m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA
2m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA
3m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA
5m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA
10m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA
15m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA
20m	MTP-LC 24 Breakout Cable MMF LC/UPC SM	POA

4. OPTIC FIBRE EQUIPMENT

4.1. Visual Fault Locator



Handheld adjustable visual light source for fault locating, new service installations, and tracing of connectivity in dense cable installations. The VLF is the tool for locating broken fibres, micro-bends, cracked fibre and patch cable continuity verification within the dead zone of OTDR's Standard fitting for 2.5mm universal connections and a 1.25mm (F) to 2.5mm (M) SM 9/125 hybrid adaptor included with a snug carry case. A 1.25mm connector adaptor for FC(M)-LC(F) adaptor supplied separately. Centre Wavelength: 650nm ± 10nm. (635nm can be supplied on order)
 Emitter Type: FP-LD (10mw, 1mw optional)
 Operating Mode: CE and Pulsed (2-3Hz)
 Operating Distance: 5/8/10/20/30km
 Output Power: 30mw Standard (Optional 1,3,5,10mw)

Item	Description	Price
VLS-080502	Visual Fault Locator. Discount scale with volumes. Specify power output with order	POA

4.2. Mini-Inspection Microscope



Scope has both Oblique and Coaxial white LED lighting
 Universal adaptor for 2.5mm and 1.25mm connectors
 Ergonomic design for easy one-hand use
 Supplied with its own bag for safekeeping

Item	Description	Price
O-221409	Handheld Mini Inspection Microscope. Discount scale with volumes	POA

4.3. USB/WiFi Intelligent Inspection Microscope



Wireless real time image transmission to you tablet or smart device
 USB real time image transmission to your laptop, PC or OTDR
 Automatic software analysis and review for pass/fail. Compatible with Windows, Android or IOS
 1 Second boot time and 5 second WiFi connect.
 USB charging with standby time up to 6 hours and 3 hour continuous use
 Wide range of attachments for SC, LC, MU, ST, MT and MPO. (some ordered separately)
 400x optical magnification with visual range of 543um * 302um

Item	Description	Price
O-221411	Handheld Mini Inspection Microscope. Discount scale with volumes	POA

4.4. Handheld Inspection Probe Microscope



Designed to provide customer the ability to troubleshoot network issues most common cause, dirty connectors, by inspecting the end face of a connector for debris.
 With a 400x probe for 250 time optical magnification and a 3.5" display for easy viewing of small particles and included tips, a user has the ability to the quality of t both the cable and bulkhead end faces.
 Digital analysis for dust, dirt, oils, pits, or other anomalies
 Video Output: NTSC/PAL
 Power Supply: V1A Li Battery
 Resolution Ratio: 0.5um
 Weight: 1.5kg

Item	Description	Price
O-221401	Handheld Mini Inspection Microscope. Discount scale with volumes	POA

4.5. Handheld Adjustable Light Source



Handheld adjustable light source for new infrastructure installations, fibre loss testing, acceptance testing, and maintenance work. When combined with our handheld optical power meter, it offers a quick and accurate testing solution for both Single-Mode and Multi-Mode fibres. The O-080202 unit offers 1 to 4 wavelengths and an adjustable output power (Customer order specific).
 Combined with our Optical Power Meter (O-080104A) for wavelength ID information.
 Standard fitting: FC(F) with SC (F) Adaptor and optional LC and ST adapters available for order separately.
 Tone Generation: 270Hz, 330Hz, 1KHz, 2KHz
 Wavelengths: 1310/1550, (1310/1490, 1550/1625nm supplied on order)
 Emitter Type: FP-LD
 Operating Mode: CE and Pulsed (2-3Hz)
 Operating Distance: 5/8/10/20/30km
 Output Power: Adjustable from -5dBm to ~-12dBm in <0.5dBm steps

Item	Description	Price
O-080202	Handheld Adjustable Light Source. Discount scale with volumes	POA

4.6. Handheld Optical Power Meter



When combined with our handheld light source unit, it offers a quick and accurate testing solution for both Single-Mode and Multi-Mode fibres. The O-080104A unit offers 6 wavelengths for optical reading and wavelength ID when used together with the light source unit.
 Data Storage for 1000 records. Setup reference power levels for recall.
 Standard fitting: FC(F), with adaptors for SC (F), ST(F) and LC (F) included
 Calibrated λ : 850nm, 1300nm, 1310nm, 1490nm, 1550nm and 1625nm.
 Tone ID: 270Hz, 330Hz, 1KHz, 2KHz
 Wavelengths: 1310/1550, (1310/1490, 1550/1625nm default on order)
 Detector Type: InGaAs
 Measurement Range: -70 to ~+6dBm Uncertainty: ± 0.15 dB
 Intelligent backlight control, auto-off power options and more...

Item	Description	Price
O-080104A	Handheld Optical Power Meter. Discount scale with volumes	POA

4.7. Mini-Pro OTDR



The Mini-Pro OTDR is a powerful and compact tested with a 3.5inch colour LCD screen and priced very well for its capabilities
 Plastic shell design for shock-proof and impact resistant use.
 The unit combines 8 functions with a highly integrated OTDR, Event Maps, Stable Light Source, Optical Power Meter, Visual Fault Locator, Cable Sequence Proofreading, Copper Cable Length Measurement and Lighting functions.
 Quick analysis and detection for break points with space for 600 internal records, Flash Card for additional storage space and a built in 4000mAh Li battery and USB charging
 Wavelength: 1310nm and 1550nm ± 20 nm
 Fibre Type: G652 SM
 Dynamic Range: 24dB/22Db
 Test Range: 100m – 60km

Item	Description	Price
O-080620	Mini-Pro OTDR. Discount scale with volumes	POA

4.8. Optic Fibre Identifier

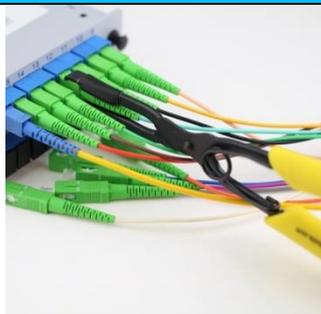


A vitally important tool to identify if a fibre is live or carrying traffic or not without disrupting services. The fibre identifier also includes a Visual Fault Locator module. Measure signal direction and optical power with macro bent technology.

Insertion Loss: 1.0dB
 Fibre Type: <3mm Fibre
 Identify Signal Type: 270Hz/1KHz/2KHz
 Minimal Power Detection (1310nm): -30dBm
 Minimal Power Detection (1550nm): -35dBm
 Centre Wavelength: 650nm
 Output Power: 10mW
 Detector Type: 1mm InGaAs
 Battery: 2x AA
 Battery Life: >60 Hours
 Display: LED

Item	Description	Price
O-080702	Optic Fibre Identifier. Discount scale with volumes	POA

4.9. Connector Insertion/Extraction Tool



Insertion Extraction Tool:

- Easily inserts and extracts fibre optic connectors in high density patch panels.
- Works with LC and SC simplex and duplex connectors as well as MU, MT-RJ and other similar types.
- Tool tip design ensures positive grip without slipping.
- Spring loaded tool action and ergonomic grips allow easy, comfortable and precise left or right hand operation.
- Dimensions: 222.86 mm x 70 mm x 19.1 mm.
- Weight: 99g.

Item	Description	Price
Mil-80860	Connector Insertion and Extraction Tool. Discount scale with volumes	POA

4.10. Fibre Optic Stripper Tool



Designed not to scratch or nick the glass fibre
 Lock to hold tool closed when not in use
 Pre-set at the factory – no adjustment needed
 1 hole for stripping 250micron buffer to expose 125micron clad fibre
 1 hole to strip away 2-3mm fibre jacket
 1 140micron hole for precision cladding removal

Item	Description	Price
CFS3-221001	Fibre Optic Stripper Tool. Discount scale with volumes	POA

4.11. Miller Fibre Optic Stripper Tool Set



Designed not to scratch or nick the glass fibre
 Length – 136.mm, weight 71g
 Pre-set at the factory – no adjustment needed.
 Hardened, tempered and ground to assure precise buffer removal
 3 Tool variants or complete sets are available

Item	Description	Price
MIL-221004a	Fibre Optic Stripper Tool – 250micron Discount scale with volumes	POA
MIL-221004b	Dual Hole Fibre Optic Stripper Tool – 250 or 900micron Discount scale with volumes	
MIL-221004c	Tri Hole Fibre Optic Stripper Tool – 250, 900micron or 3mm jacket	

4.12. Fibre Optic Kevlar Scissors



Micro serrated cut for easy cutting through Kevlar
 Length – 155mm, weight 110g
 Safety buckle to prevent excessive cutting
 Non-slip handle design for comfortable operation
 The blade is designed with a “fixed groove” to fix the thread so as to prevent slipping
 All stainless steel blades, sharp and durable.
 Anti-rust and ant-corrosion for long life use

Item	Description	Price
KEV-221114	Kevlar Scissors Discount scale with volumes	POA

4.13. One-Click Cleaner Cle-Pen End-face Cleaner



One-Click Cleaner Cle-Pen available for:

- 1.25mm to suit LC & MU with PC/APC/UPC finish and
- 2.5mm SC/ST/FC PC/APC/UPC finish.

The dust cap acts as an adapter for cleaning unmated connectors or patch cables. Extendable tip to access recessed connectors.
 Compliant with EU/95/2002/EC Directive (RoHS)
 Number of Cleans: ~800 clicks
 Cleaning Method: Dry
Specify type when placing order as there are 2 different models
 PN: O-220805a – 1.25mm LC/MU
 PN: O-220805b – 2.5mm SC/ST/FC

Item	Description	Price
O-220805(x)	One-Click Cleaner. Specify “a” or “b” at ordering. Discount scales with volume’s	POA

4.14. Fibre Connector Cleaner



Efficient and Easy to use and delivers consistently high quality cleaning performance where you need it most.
 Lightweight and safe to use.
 Anti-static resin is used in the construction of the casing
 Replacement tape so you can reuse the cleaner and reduce costs
 Number of Cleans: ~400 wipes
 Cleaning Method: Dry
 Replacement taps rolls are available

Item	Description	Price
O-220705	Fibre Connector Cleaner. Discount scales with volume’s	POA

4.15. MPO/MTP One-Click Cleaner



The NeoClean employs microfibers designed specifically for high density optical connectors to remove even the smallest contamination not visible to the naked eye.
 MPO/MTP connectors of 1 row/12 s or 2 rows/24 s are common as well as the uncommon 16/32 connector.
 Anti-static resin is used in the construction of the casing
 Replacement tape so you can reuse the cleaner and reduce costs
 Number of Cleans: ~600 clicks
 Cleaning Method: Dry
 PN: O-220803-M – 1 Row 12 / 2 Row 24
 PN: O-220803-M2 – 1 Row 16 / 2 Row 32

Item	Description	Price
O-220803-(x)	MTP/MPO Connector Cleaner. Discount scales with volume’s	POA

4.16. Buffer Tube Stripper



The Buffer Tube Stripper with adjustable blades can be set for any depth to help assure nick-free jacket entry. Used on Simplex fibre and a variety of fibre optic cables up to 1/8th inch diameter (3.17mm)
Loose tube fibre demands a precision tool capable of cutting different buffer tube diameters without nicking the enclosed fibre
Adjustable Stripping Range: 2-3mm

Item	Description	Price
O-221029	Buffer Tube Stripper. Discount scales with volume's	POA

4.17. Fibre Cleaver - O-220112



A multifunction cleaver, the blade can rotate automatically 26 times full-circle, without needing any blade adjustment offering less user action to fine tune the cleaver. Average cutting angle performance of 0.5
Fibre Type: Single silica fibre
Adapt to Bare Fibre Diameter: Ø125um
Coating Diameter: Ø0.25mm, Ø0.9mm, Ø2.0mm, Ø3.0mm, Ø3mmx2
Length: 10~16mm (Ø0.25mm and Ø 0.9mm),
Cutting Angle: ≤0.7°
Cutting Edge Lifespan: ~60,000 cleaves

Item	Description	Price
O-220112	Fibre Cleaver. Discount scales with volume's	POA

4.18. Fibre Cleaver - O-220113



A multifunction cleaver, the blade can rotate automatically 26 times full-circle, without needing any blade adjustment offering less user action to fine tune the cleaver. Average cutting angle performance of 0.5. Automatic off cut collection bin
Fibre Type: Single silica fibre
Adapt to Bare Fibre Diameter: Ø125um
Coating Diameter: Ø0.25mm and Ø0.9mm
Length: 10~16mm (Ø0.25mm and Ø 0.9mm),
Cutting Angle: ≤0.7°
Cutting Edge Lifespan: ~60,000 cleaves

Item	Description	Price
O-220113	Fibre Cleaver. Discount scales with volume's	POA

4.19. Fibre Cleaver - O-220114



A great entry level fibre cleaver and manufactured from high-grade U.S. super hard aluminium alloy (HV450 hardness).
Fibre Type: Single silica fibre
Adapt to Bare Fibre Diameter: Ø125um
Coating Diameter: Ø0.25mm, Ø0.9mm, Ø2.0mm, Ø3.0mm, Ø3mmx2
Length: 10~16mm (Ø0.25mm and Ø 0.9mm),
Cutting Angle: ≤0.7°
Cutting Edge Lifespan: ~60,000 cleaves

Item	Description	Price
O-220114	Fibre Cleaver. Discount scales with volume's	POA

4.20. Fusion Splicers		
Image	Description	Base Price
	<p>PN: O-ACL-S80M The ultimate start kit, small, light with long battery life. 4 motors for accurate alignment. 250 x magnifications of fibres. 7 second fast splicing and 26 second intelligent heating. Electrodes rated for ~4000 splices. 4400mAh Li-Battery. Inductive auto heater and 3-in-1 multifunction clamps with waterproof design. Kit includes: Fibre Cleaver, Miller Fibre Strippers, Spare pair of electrodes, AC Power Cord, AC Adapter, Brace, Drop-cable Strippers, Carry Bag and user manual.</p>	POA
	<p>PN: O-ACL-S60C ARC calibration by temperature and air pressure done automatically. PAS digital image processing and 250 x magnifications of fibres. 6 second fast splicing and 26 second intelligent heating. Electrodes rated for ~4000 splices. 5800mAh Li-Battery. Inductive auto heater and 3-in-1 multifunction clamps with 360° rubber and amour protection against impacts water and dust. Kit includes: Miller Fibre Strippers, Spare pair of electrodes, AC Power Cord, AC Adapter, Brace, Drop-cable Strippers, Carry Bag and user manual.</p>	POA
	<p>PN: O-ACL-S60F Fast boot up time of 1 second with upgraded Quad CPU and 6 seconds per splice and 18 seconds heating. 4 Motors for accurate alignment. 250 x magnifications of fibres. Electrodes rated for ~4000 splices. 5200mAh Li-Battery. Inductive auto heater, rubber and amour protection against impacts (IP5X) water and dust (IPX2). Kit includes: Miller Fibre Strippers, Spare pair of electrodes, AC Power Cord, AC Adapter, Brace, Drop-cable Strippers, Carry Bag and user manual.</p>	POA
	<p>PN: O-ACL-S80C Small, lightweight and high reliability entry unit with 4 motors for alignment. 7 seconds per splice and 18 seconds heating. 320 x magnifications of fibres. Electrodes rated for ~4000 splices. 6800mAh Li-Battery. Inductive auto heater, rubber and amour protection against impacts (IP5X) water and dust (IPX2). Kit includes: Miller Fibre Strippers, Spare pair of electrodes, AC Power Cord, AC Adapter, Brace, Drop-cable Strippers, Carry Bag and user manual.</p>	POA

	<p>PN: O-ACL-S80D Rich with functions and 6 alignment motors for precision dual direction splicing. Small, lightweight and high reliability. 7 seconds per splice and 18 seconds heating. 320 x Magnifications of fibres. Electrodes rated for ~4000 splices. Fitted with large 6800mAh Li-Battery. Inductive auto heater, rubber and amour protection against impacts (IP5X) water and dust (IPX2) and automatic environmental compensation to ensure optimal splice performance. Kit includes: Miller Fibre Strippers, Spare pair of electrodes, AC Power Cord, AC Adapter, Brace, Drop-cable Strippers, Carry Bag and user manual.</p>	<p>POA</p>
	<p>PN: O-ACL-S60G Ribbon Splicer Ribbon splicing for 2-12 s, precision alignment with a 20 second splicing time and 18 seconds heating. 320 x Magnifications of fibres. Electrodes rated for ~3000 splices. Fitted with 5200mAh Li-Battery. Inductive auto heater, rubber and amour protection against impacts (IP5X) water and dust (IPX2) and automatic environmental compensation to ensure optimal splice performance. Kit includes: Miller Fibre Strippers, Spare pair of electrodes, AC Power Cord, AC Adapter, Brace, Drop-cable Strippers, Carry Bag and user manual.</p>	<p>POA</p>
	<p>PN: O-ACL-S60S An entry level fusion splicer with a user friendly interface and great features. 8 seconds per splice and 28 seconds heating. 300 x Magnifications of fibres. Electrodes rated for ~4000 splices. Fitted with large 8800mAh Li-Battery. Inductive auto heater, rubber and amour protection against impacts (IP5X) water and dust (IPX2) and automatic environmental compensation to ensure optimal splice performance. Kit includes: Fibre Cleaver, Spare pair of electrodes, AC Power Cord, AC Adapter, Fibre Stripper, Skin Line Stripper, Carry Bag and user manual.</p>	<p>POA</p>

4.21. Fibre Optic Kits

Image	Description	Base Price
	<p>PN: O-ACL-KIT503 – FAST Connector Termination Kit The connector kit contains all the tooling you need prepare fibre optic cables (breakout, stripping and cleaving) for termination with the range of FAST connectors. The kit allows for termination of 250um and 900um coated connectors using the PC range of FAST connectors Kit includes: Tri-hole stripper (TFS-392), Kevlar scissors (KC-1), 6” Side Cut Pliers 130mm, FTTH Flat drop Optical Cable, Precision Fibre Cleaver FC-6S with bin attachment, Optic Fibre Power Meter FMP-380, Visual Fault Locator VLF-10S, Fibre Optic Cleaning Cube with 120 wipes, 250ml Twist-Lock Auto Dispensing Alcohol Bottle, Fibre Optic Disposal Unit, Black Marker, Carry Bag (230x160x150mm)</p>	<p>POA</p>

	<p>PN: O-ACL-KIT111M – Fibre Cleaning Kit A basic cleaning kit contains all the typical cleaning devices for today’s field tech and data centre engineer. Kit includes: NTT-AT Fibre Optic Cassette Cleaner (OPTIPOP-R), Box of KIMWIPES 280 pcs/box, Cle-Pen One Click Cleaner (SC/ST/FC) Cle-Pen One Click Cleaner (LC/MU), Dry Wipes 100 pcs, 250ml Twist-Lock Auto Dispensing Alcohol Bottle, MTP/MPO Cleaner NEOCLEAN-M, Carry Bag (230x160x150mm)</p>	<p>POA</p>
	<p>PN: O-ACL-KIT404 – Test Equipment Toolkit A compact and economical solution for all applications in fibre optic network verification, installation, maintenance and surveillance. This kit also has everything you need to properly clean optical fibre end faces, bulkhead connections and fibres in preparation for splicing applications. Whether you are using single-mode or multimode fibre, this kit is designed for you, Kit includes: Tri-hole stripper (TFS-392), Kevlar scissors (KC-1), Grey Buffer Tube Stripper(45-162), Fibre Cassette Cleaner (KC-105), Cle-Pen One Click Cleaner (SC/ST/FC) Cle-Pen One Click Cleaner (LC/MU), Utility Knife, Black Marker, Optical Power Meter (HW-3211), Visual Fault Locator (VLF-10S), Seikoh-Giken Standard FC and SC Adaptor, Fibre Optic Inspection Microscope 400x (TFS-392), Optic Fibre Light Source (HW-3111), Black Tool Case (370x265x138mm)</p>	<p>POA</p>
<p>Do you need to setup a new employee or a new department; Arvensis Technology can work with you to put together a kit that meets your exact requirement. We can also restock your kits as consumables are used up. Contact Arvensis Technology to discuss your requirements today</p>		

4.22. Shipping and Freight

	<p>Pricing is dependent on volume and weight and will be advised at the time of quoting. Consolidate orders to reduce shipping costs or request sea-freight to save on costs if your order is not urgent.</p>	<p>POA</p>
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Passive Optical Networks, Solution Design, Sales and Implementation
Passive Coarse and Dense WDM Products and Sales
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