

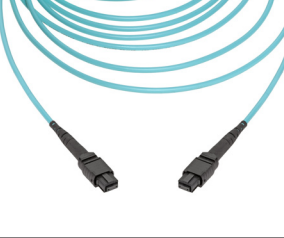
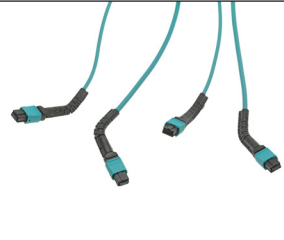

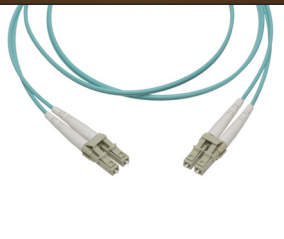
AVNET<sup>®</sup> ABACUS

molex

/ MOLEX OPTICAL SOLUTIONS -  
CONNECTIVITY REFERENCE GUIDE

# / OPTICAL SOLUTIONS - CONNECTIVITY REFERENCE GUIDE

## DATA CENTER SOLUTIONS



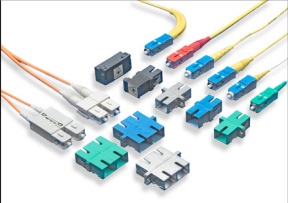
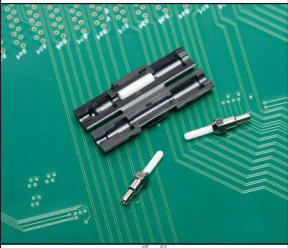

	Product Name	Features
	<p><b>MTP/MPO Data Center Cable Solutions</b></p> <p>Data center MTP/MPO cable assemblies in various lengths and specialty components for more efficient fiber routing/management in high-density applications</p>	<ul style="list-style-type: none"> <li>• Patch cords, trunks, Multi- and Single-Mode</li> <li>• 12 and 24 Fiber Configurations</li> <li>• Low Loss Options Available</li> </ul>
	<p><b>FlexiBend MTP/MPO Flexible-Boot Cable Assemblies</b></p> <p>MPO cables with a flexible strain-relief boot, designed to bend and maintain any angle or direction from straight to 90°</p>	<ul style="list-style-type: none"> <li>• Specialty components allow for multi-directional fiber routing</li> <li>• Strain-relief boots designed to accommodate straight to 90° routing</li> <li>• Provides 'stay-in-place' boot positioning for improved cable management</li> </ul>
	<p><b>LumaLink Optical Trace Cable Assemblies</b></p> <p>Offer full illumination along the entire length of the cable. Competitors' closest equivalents are illuminated only at each end, not along the cable's length. Also, competitors use LC connectors while Molex uses the higher-density MPO connector</p>	<ul style="list-style-type: none"> <li>• MTP/MPO</li> <li>• Multimode, Singlemode</li> <li>• OM4/OM4+ Fiber, 3.00mm OD Riser-Rated Cable</li> </ul>
	<p><b>LC Connectors, Adapters and Cable Assemblies</b></p> <p>Industry-standard multi-port and single adapters ideal for high-density network connections</p>	<ul style="list-style-type: none"> <li>• Simplex, duplex, singlemode and multimode options</li> <li>• Multiple adapter configurations including an 8-port option</li> <li>• 45° and 90° boot options for cable assemblies</li> </ul>

LEARN MORE



# / OPTICAL SOLUTIONS - CONNECTIVITY REFERENCE GUIDE

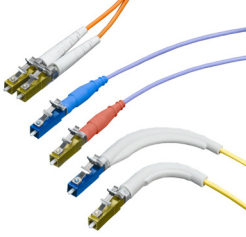

## CONNECTORS AND ADAPTERS

	Product Name	Features
	<p><b>Optical EMI Shielding Adapters</b></p> <p>Molex Optical EMI Shielding Adapters are ideal for data communications and networking applications that require I/O density</p>	<ul style="list-style-type: none"> <li>• Industry Standard Connector Interfaces</li> <li>• Tested up to 25G</li> <li>• Shutters and EMI Gaskets Included</li> </ul>
	<p><b>LC Connectors, Adapters and Cable Assemblies</b></p> <p>Industry-standard multi-port and single adapters ideal for high-density network connections</p>	<ul style="list-style-type: none"> <li>• Simplex, duplex, singlemode and multimode options</li> <li>• Multiple adapter configurations including an 8-port option</li> <li>• 45° and 90° boot options for cable assemblies</li> </ul>
	<p><b>SC, SC/APC and Duplex Connectors, Adapters and Cable Assemblies</b></p> <p>Indoor/outdoor-rated ultra-bend insensitive fiber, offers superior optical performance and a small bend radius, ideal for compact, constrictive spaces</p>	<ul style="list-style-type: none"> <li>• Simplex, duplex, singlemode and multimode options</li> <li>• One-piece body design</li> <li>• Shutters included</li> </ul>
	<p><b>SnapMate Optical Interconnect System</b></p> <p>Compact and re-matable optical interconnect in the footprint of a fusion splice</p>	<ul style="list-style-type: none"> <li>• Ceramic ferrule and alignment sleeve</li> <li>• Low-profile housing</li> <li>• Re-usable housing (up to 5 mating cycles)</li> </ul>
	<p><b>VersaBeam MT Interconnects</b></p> <p>Offer a high-density optical interconnect requiring minimal cleaning while delivering repeatable optical performance over thousands of mating cycles.</p>	<ul style="list-style-type: none"> <li>• 12 micro lenses in an array</li> <li>• Recessed micro lenses create a non-contacting ferrule interface</li> <li>• MT ferrule footprint can be incorporated</li> </ul>

[LEARN MORE](#)

# / OPTICAL SOLUTIONS - CONNECTIVITY REFERENCE GUIDE

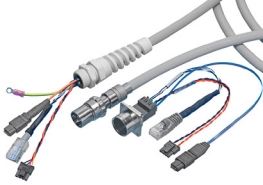


## RUGGEDIZED SOLUTIONS

	Product Name	Features
	<p><b>LC2+ Metal Optical Connectors</b></p> <p>The industry's only metal-housing LC2+ connector, designed to support enhanced performance aerospace-grade optical cabling, available in standard, high-temperature and sealed versions</p>	<ul style="list-style-type: none"> <li>• Simplex, duplex, singlemode and multimode versions</li> <li>• Metal body and latch version of the popular LC connector system</li> <li>• Connectors available in standard, high-temperature and sealed versions</li> </ul>
	<p><b>Optical EMI Shielding Adapters</b></p> <p>Molex Optical EMI Shielding Adapters are ideal for data communications and networking applications that require I/O density</p>	<ul style="list-style-type: none"> <li>• Industry Standard Connector Interfaces</li> <li>• Tested up to 25G</li> <li>• Shutters and EMI Gaskets Included</li> </ul>

[LEARN MORE](#)

# / OPTICAL SOLUTIONS - CONNECTIVITY REFERENCE GUIDE

## MEDICAL SOLUTIONS

	Product Name	Features
	<p><b>MediSpec Hybrid Circular MT Cable Assemblies and Receptacles</b></p> <p>Provides high-performance, mixed optical and electrical signaling to streamline the number of connectors required in medical systems</p>	<ul style="list-style-type: none"> <li>• Configurable for optical and electrical interface</li> <li>• Medical-grade polymer</li> <li>• Expanded beam MT ferrule optionW</li> </ul>
	<p><b>Circular MT Assemblies</b></p> <p>Offers a high-density optical interconnect requiring minimal cleaning while delivering repeatable optical performance over thousands of mating cycles</p>	<ul style="list-style-type: none"> <li>• Aluminum connector and receptacle housings</li> <li>• Circular MT is designed for round, multi-fiber jackets</li> <li>• Array MT offers a robust back shell and ribbon cable retention mechanisms</li> </ul>
	<p><b>Active Optical Cables</b></p> <p>Molex Active Optical Cables (AOCs) achieve high data rates over long reaches, using a fraction of the power of other brands while providing streamlined installation for high-performance computing and storage applications</p>	<ul style="list-style-type: none"> <li>• QSFP+ AOC cables use silicon photonics optical engines</li> <li>• QSFP+ to MPO pigtail cables available with loss budgets of 2 and 4dB, enabling links up to 4.0km</li> <li>• Low-loss singlemode pigtail versions available</li> <li>• Four bi-directional optical data links per end, operating at data rates from 1.0 to 14.0 (aggregated 56.0) Gbps</li> <li>• QSFP+ AOC cables available in standard lengths up to 300.0m and custom lengths up to 4.0km</li> <li>• Lower cost option versus standard transceivers and cable assemblies</li> </ul>

[LEARN MORE](#)

## AUSTRIA

Avnet EMG Elektronische Bauelemente GmbH  
Grünbergstraße 15/1/4.OG,  
A-1120 Wien  
Phone: +43 (0)1 86642-0  
Fax: +43 (0)1 86642-250  
wien@avnet-abacus.eu

## BELGIUM

De Kleetlaan 3  
BE-1831 Diegem  
Phone: +32 2 227 2000  
diegem@avnet-abacus.eu

## BULGARIA

c/o Avnet Abacus Romania  
4 Gara Herastrau,  
Building B, 2nd Floor  
RO-020334 Bucharest  
Phone: +4021 528 16 90  
bulgaria@avnet-abacus.eu

## CROATIA

c/o Avnet Abacus Slovenia  
Dunajska Cesta 167  
SI-1000 Ljubljana  
Phone: +386 (0)1 560 97 54  
Fax: +386 (0)1 560 98 78  
croatia@avnet-abacus.eu

## CZECH REPUBLIC

Amazon Court Karolinska 661/4  
CZ-18600 Prague  
Phone: +420 234 091 011  
Fax: +420 234 091 010  
praha@avnet-abacus.eu

## DENMARK

Knudlundvej 24, DK-8653 Them  
Phone: +45 86 84 84 84  
Fax: +45 86 84 82 44  
them@avnet-abacus.eu

Lyskær 9, DK-2730 Herlev  
Phone: +45 86 84 84 84  
Fax: +45 43 29 37 00  
herlev@avnet-abacus.eu

## EGYPT

c/o Avnet Abacus Turkey  
Tatlısu Mahallesi Pakdil  
Sokak No: 7 Kat: 2  
TR-34774 Umraniye Istanbul Turkiye  
Phone: +90 216 52 88 370  
Fax: +90 216 52 88 377  
egypt@avnet-abacus.eu

## ESTONIA

Suur-Jõe 63, Pärnu,  
EE-80042 Pärnu Maakond  
Phone: +372 56637737  
paernu@avnet-abacus.eu

## FINLAND

Klovinpellontie 1-3  
Tower 1, Floor 6  
FI-02180 Espoo  
Phone: +35 820 749 9220  
Fax: +35 820 749 9240  
espoo@avnet-abacus.eu

## FRANCE

Le Copernic  
12, rue Jean Bart  
FR-91300 Massy  
Phone: +33 (0) 1 6447 2929  
Fax: +33 (0) 1 6447 9150  
paris@avnet-abacus.eu

8 chemin de la Terrasse  
Bat D 1er étage  
FR-31500 Toulouse  
Phone: +33 (0) 5 6247 4787  
Fax: +33 (0) 5 6247 4761  
toulouse@avnet-abacus.eu

16 C Rue de Jouanet  
FR-35700 Rennes  
Phone: +33 (0) 2 9983 7720  
Fax: +33 (0) 2 9983 4829  
rennes@avnet-abacus.eu

2 avenue Tony Garnier, 3rd floor  
FR-69007 Lyon  
Phone: +33 (0) 4 7877 1370  
Fax: +33 (0) 4 7877 1391  
lyon@avnet-abacus.eu

## GERMANY

Kaiserin-Augusta-Allee 14  
DE-10553 Berlin  
Phone: +49 (0) 30 790 997 0  
Fax: +49 (0) 30 790 997 51  
berlin@avnet-abacus.eu

Industriestr. 16  
DE-76297 Stutensee  
Phone: +49 (0) 7249 910 149  
Fax: +49 (0) 7249 910 177  
stutensee@avnet-abacus.eu

Rhenus-Platz 2  
D-59439 Holzwickede/Dortmund  
Phone: +49 (0) 2301 2959 27  
Fax: +49 (0) 2301 2959 29  
dortmund@avnet-abacus.eu

Flughafenstraße 52a  
DE-22335 Hamburg  
Phone: +49 (0) 40 608 23 59 0  
Fax: +49 (0) 40 608 23 59 20  
hamburg@avnet-abacus.eu

Einsteinring 1  
DE-85609 Dornach-Aschheim/  
Munich  
Phone: +49 (0) 89 388882 041  
Fax: +49 (0) 89 388882 040  
muenchen@avnet-abacus.eu

Lina-Ammon-Str. 19 b  
DE-90471 Nuernberg  
Phone: +49 (0) 911 244 250  
Fax: +49 (0) 911 244 25 25  
nuernberg@avnet-abacus.eu

Neue Ramtelstr. 4  
DE-71229 Leonberg  
Phone: +49 (0) 7152 3009 70  
Fax: +49 (0) 7152 3009 96  
stuttgart@avnet-abacus.eu

Rotenburger Str. 20  
D-30659 Hannover  
Phone: +49 (0) 511 336517 10  
hannover@avnet-abacus.eu

## GREECE

c/o Abacus Avnet Serbia  
Milentija Popovića 5B,  
Floors 6-8  
Belgrade RS-11070  
Phone: +381 11 4022302  
Fax: +381 11 4049900  
belgrade@avnet-abacus.eu

## HUNGARY

c/o Avnet Abacus Slovakia  
GreenPoint Offices,  
Blok F Turcianska 2  
SK-82109 Bratislava  
Phone: +421 232 242 608  
Fax: +421 2 32 1111 40  
budapest@avnet-abacus.eu

## IRELAND

c/o Avnet Abacus Bolton  
Oceanic Building  
Waters Meeting Road  
Bolton BL1 8SW  
Phone: +44 (0)1204 547190  
Fax: +44 (0)1204 547171  
bolton@avnet.eu

## ISRAEL

1 Habrosch Street  
Bney Dror IL-4581500  
Phone: +972 9 778 0280  
Fax: +972 3 760 0794  
israel@avnet-abacus.eu

## ITALY

Via Manzoni 44  
IT-20095 Cusano Milanino/Milano  
Phone: +39 02 660 921  
Fax: +39 02 66092 332  
milano@avnet-abacus.eu

Viale dell'industria 23  
IT-35129 Padova  
Phone: +39 049 7800 381  
Fax: +39 049 7730 36  
padova@avnet-abacus.eu

Via Scaglia Est. 31/33  
IT-41126 Modena  
Phone: +39 059 34891  
Fax: +39 059 344 993  
modena@avnet-abacus.eu

Via Panciatici 40/11  
IT-50127 Firenze  
Phone: +39 055 436 1928  
Fax: +39 055 428 8810  
firenze@avnet-abacus.eu

Viale Luca Gaurico 9/11  
IT-00143 Roma  
Phone: +39 02 660 921  
rome@avnet-abacus.eu

## LATVIA

c/o Avnet Abacus Poland  
Plac Solny 16  
PL-50-062 Wrocław  
Phone: +48 71 34 205 99  
Fax: +48 71 34 229 10  
latvia@avnet-abacus.eu

## LITHUANIA

c/o Avnet Abacus Poland  
Plac Solny 16  
PL-50-062 Wrocław  
Phone: +48 71 34 205 99  
Fax: +48 71 34 229 10  
lithuania@avnet-abacus.eu

## NETHERLANDS

Stadionstraat 2, 6th floor  
NL-4815 NG Breda  
Phone: +31 (0) 76 57 22 300  
Fax: +31 (0) 76 57 22 303  
breda@avnet-abacus.eu

## NORWAY

Olaf Helsetsvæi 6,  
NO-0694 Oslo  
Phone: +47 (0) 94 89 53 73  
oslo@avnet-abacus.eu

## POLAND

Plac Solny 16  
PL-50-062 Wrocław  
Phone: +48 71 34 205 99  
Fax: +48 71 34 229 10  
wroclaw@avnet-abacus.eu

## PORTUGAL

Tower Plaza, Rot. Eng. Edgar  
Cardoso, 23,Piso 14, Sala E  
PT-4400-676 Vila Nova de Gaia  
Phone: +351 223 779502  
Fax: +351 223 779503  
portugal@avnet-abacus.eu

## ROMANIA

4 Gara Herastrau, Building B,  
2nd Floor  
RO-020334 Bucharest  
Phone: +4021 528 16 90  
romania@avnet-abacus.eu

## SERBIA

Milentija Popovića 5B, Floors 6-8  
Belgrade RS-11070  
Phone: +381 11 4022302  
Fax: +381 11 4049900  
belgrade@avnet-abacus.eu

## SLOVAKIA

GreenPoint Offices,  
Blok F Turcianska 2  
SK-82109, Bratislava  
Phone: +421 232 242 608  
Fax: +421 2 32 1111 40  
slovakia@avnet-abacus.eu

## SLOVENIA

Dunajska Cesta 167  
SI-1000 Ljubljana  
Phone: +386 (0)1 560 97 54  
Fax: +386 (0)1 560 98 78  
ljubljana@avnet-abacus.eu

## SOUTH AFRICA

Block 13, Pinewood Office Park  
33 Riley Road Woodmead,  
ZA-2191 Sandton, Johannesburg  
Phone: +27 (0)11 319 8600  
Fax: +27 (0)11 319 8650  
avnet-abacus-sales-southafrica@avnet.eu

First Floor, Forrest House  
Belmont Office Park, Belmont Road  
ZA-7700 Rondebosch, Cape Town  
Phone: +27 (0)21 689 4141  
Fax: +27 (0)21 686 4709  
avnet-abacus-sales-southafrica@avnet.eu

33 Shelbourne Avenue La Lucia  
ZA-4051 Umhlanga  
KwaZulu-Natal  
Phone: +27 319 405 006  
avnet-abacus-sales-southafrica@  
avnet.eu

## SPAIN

NyN Tower, C/Tarragona  
149-157, Floor 19  
ES-08014 Barcelona  
Phone: +34 (0) 93 327 85 50  
Fax: +34 (0) 93 425 05 44  
barcelona@avnet-abacus.eu

Avenida Madariaga 1  
Floor 3  
ES-48014 Bilbao  
Phone: +34 (0) 94 457 00 44  
Fax: +34 (0) 94 456 88 55  
bilbao@avnet-abacus.eu

Ronda de Poniente  
(pq Empresarial Euronova),  
4 - 2ª PLANTA, tres Cantos,  
28760, Madrid  
madrid@avnet-abacus.eu

## SWEDEN

Avnet Nortec AB  
Hemvärnsgatan 9  
SE-171 54 Solna  
Phone: +46 (0)8587 462 00  
Fax: +46 (0)8587 460 01  
stockholm@avnet-abacus.eu

Smörhålevägen 3  
SE-43442 Kungsbacka  
Phone: +46 (0)8 58746 200  
Fax: +46 (0)300 140 15  
gothenburg@avnet-abacus.eu

## SWITZERLAND

Bernstrasse 394  
CH-8953 Dietikon  
Phone: +41 (0)43 322 49 90  
Fax: +41 (0)43 322 49 99  
zurich@avnet-abacus.eu

## TURKEY

Tatlısu Mahallesi Pakdil  
Sokak No: 7 Kat: 2  
TR-34774 Umraniye Istanbul Turkiye  
Phone: +90 216 52 88 370  
Fax: +90 216 52 88 377  
istanbul@avnet-abacus.eu

## UK

Building 5, Waltham Park  
White Waltham  
Maidenhead Berkshire SL6 3TN  
Phone: +44 (0)1628 512900  
Fax: +44 (0)1628 512999  
maidenhead@avnet.eu

St. Peter's House  
Silverwell Street  
Bolton, BL1 1PP  
bolton@avnet.eu

## UKRAINE

c/o Avnet Abacus Poland  
Plac Solny 16  
PL-50-062 Wrocław  
Phone: +48 71 34 205 99  
Fax: +48 71 34 229 10  
ukraine@avnet-abacus.eu