

3rd Edition

PRODUCT OVERVIEW

FIBRE OPTIC CABLING SOLUTIONS

TRADITION ♦ INNOVATION ♦ PASSION



FIBRE OPTIC CABLES AND CONNECTING HARDWARE

FO data cables

FO Indoor cables



Simplex / I-V(ZN)H - 2.0 mm / 2.8 mm - 1 fibre



Zipcord / I-V(ZN)H - 1.8 mm / 2.0 mm / 2.8 mm - 2 fibres



Duplex / I-V(ZN)HH - 2.0 mm / 2.8 mm - 2 fibres



FTTH STB / I-V(ZN)H - 2.8 mm - 2 and 4 fibres



FTTH / I-M(ZN)H - 2.2 mm - 2 and 4 fibres



BO / I-V(ZN)HH Breakout - 2.0 mm - 2 up to 12 fibres

FO Outdoor cables



wbKT HP / A-DQ(ZN)B2Y - 12 up to 144 fibres



ZGGT HP / A-DQ(ZN)B2Y HighP - 4 up to 24 fibres



wbGGT HP / A-DQ(ZN)B2Y - 12 up to 288 fibres



wbGGT HP / A-DQ(ZN)B2Y - 180 up to 576 fibres



ZwbKWT BL / A-DQ(ZN)(SR)2Y - 4 up to 24 fibres



wbKWT HP / A-DQ(ZN)(SR)2Y - 24 up to 144 fibres



ZKT Micro / A-DQ(ZN)2Y - 4 up to 24 fibres



wbKT Micro / A-DQ(ZN)2Y - 12 up to 144 fibres



ZT S-Micro / A-D2Y - 4 up to 24 fibres



wbKT S-Micro / A-DQ(ZN)2Y - 24 up to 216 fibres

FO Universal cables



U-DQ(ZN)BH - 4 up to 24 fibres



U-DQ(ZN)BH - 24 up to 144 fibres



ZGGFR Easy Blow / U-DQ(ZN)BH - 4 up to 24 fibres



wbGGFR Easy Blow / U-DQ(ZN)BH - 12 up to 288 fibres



ZGGFR Safety / U-DQ(ZN)BH - 4 up to 12 fibres



wbGGFR Safety / U-DQ(ZN)BH - 24 up to 60 fibres

FO connecting hardware



Fibre optic breakout and splice boxes



Fibre optic subracks



Fibre optic faceplates



Fibre optic distribution boxes, wall mounted



Fibre optic adapters / couplers

Terminated FO connectors

FO patch cables

FO trunks / pigtails



LC
IEC 61754-20

LC-Duplex
for round cables
IEC 61754-20



SC/APC
IEC 61754-4

LSH/APC
IEC 61754-7



LX.5/APC
IEC 61754-23

LF3
IEC 61754-28



MU
IEC 61754-6

FC/APC
IEC 61754-13



LSA (DIN)
IEC 61754-3

MPO
(MTP®)
IEC 61754-7



MT-RJ
IEC 61754-18

F-SMA
IEC 61754-22



SCD ...



ST ...



LCD ...



LSH ...



FC/PC ...

MT-RJ ...



SC/APC ...



Trunk (multiple) cable termination
with crush-resistant hose protection



Trunk termination
with textile hose protection



Breakout assembly



Pigtails

Connector	IL [dB] typical	IL [dB] maximal	RL [dB] typical	RL [dB] minimal	Grade IEC 61755
MM	0,15	0,3	30	35	better than Bm2m
SM	0,15	0,3	50	55	better than B2
SM/APC	0,15	0,3	65	70	better than B1
MT/RJ	0,5	0,75	20	25	better than Cm2m
MTP/MPO MM	0,1	0,35	20	25	better than Bm2m
MTP/MPO SM	0,1	0,35	60	65	better than C1

All connectors are tested with our simplex, duplex and Mini-Zipcord cables as well as with our pigtail fibres.

Subject to technical modification.

SELECTION GUIDE FOR OPTICAL FIBRES

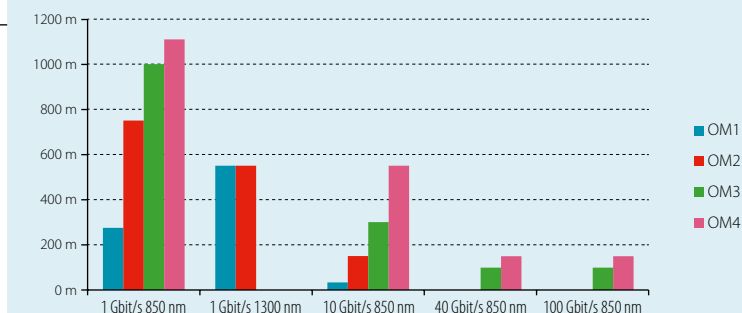
Selection criteria

The Datwyler product range consists of different types of optical fibre.

The following overview lists some of the more important criteria which will help you select for the fibre types that meet your specific requirements.

Fibre type	Standard	Fibre criteria						Transmission				Application							
		maximum attenuation dB/km 850 nm (installed)	maximum attenuation dB/km 1300 / 1310 nm (installed)	maximum attenuation dB/km 1383 nm (installed)	maximum attenuation dB/km 1550 nm (installed)	maximum attenuation dB/km 1625 nm (installed)	max. PMD ps/√km (installed)	LED 850/1300 nm (typical: 100 Mbit/s)	VCSEL 850 nm (1 GbE-10 GbE)	Laser 1310-1625 nm	CWDM systems	maximum 1 GbE link length 1000Base-SX/IEEE 802.3z	maximum 10 GbE link length 10GBase-SR/SW/IEEE 802.3ae	40/100GbE link length 40GBase-SR4 and 100GBase-SR10/IEEE 802.3ba	Fibre-to-the-desk horizontal cabling (typical: 1 GbE)	Campus / Backbone / Data Centre (typical: 10 GbE)	WAN / National backbone	City / Metro / Access network	Fibre-to-the-home
Singlemode fibres E9/125																			
SMF E9/125	G.652.D	0.34	0.34	0.21	0.23	0.1						10 km							
SMF E9/125 bend optimized (BLO)	G.652.D G.657.A1	0.34	0.34	0.21	0.23	0.1						10 km							
Multimode fibres G50/125*																			
MMF G50/125	OM2	2.70	0.70									750 m	150 m						
MMF G50/125	OM3	2.70	0.70									1000 m	300 m	100 m					
MMF G50/125	OM4	2.50	0.70									1100 m	550 m	150 m					
Multimode fibres G62,5/125																			
MMF G62,5/125	OM1	3.00	0.70									275 m	33 m						

Link lengths



* all G50/125 µm fibres are bend optimized

We will be happy to advise you!

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