

Metrobility's SFP Optics by Product

The following charts show all supported SFP optics for products which use SFP optics. **Please note that this list is in ascending order of price and distance.**

- Optics in **red** represent the best value where 2 or more optics support the same distance.
- All BWDM optics must be used in the pairs listed.

Part #	R380	MM	SM			CWDM - 80km
Protocol	DS3	O280-M2	O283-20			O483-80-47 to
Data Rate	45Mbps	O292-M5				O483-80-61

Part #	R821	MM	SM	BWDM	CWDM - 40km	CWDM - 80km
Protocol	Fast Ethernet	O280-M2	O283-20	O383-20-31	O413-40-31	O483-80-47
Data Rate	125Mbps	O292-M5	O293-20	O383-20-55	O413-40-33	O483-80-49
			O281-40		O413-40-35	O483-80-51
			O281-80		O413-40-37	O483-80-53
			O2A3-10		O413-40-39	O483-80-55
					O413-40-41	O483-80-57
					O413-40-43	O483-80-59
					O413-40-45	O483-80-61
					O413-40-47	
					O413-40-49	
					O413-40-51	
					O413-40-53	
					O413-40-55	
					O413-40-57	
					O413-40-59	
					O413-40-61	

Part #	R380	MM	SM	BWDM	CWDM - 40km	CWDM - 80km
Protocol	OC-3/STM-1	O280-M2	O283-20	O383-20-31	O413-40-31	O483-80-47
	Fast Ethernet	O292-M5	O293-20	O383-20-55	O413-40-33	O483-80-49
Data Rate	125 - 155Mbps		O2A3-10		O413-40-35	O483-80-51
					O413-40-37	O483-80-53
					O413-40-39	O483-80-55
					O413-40-41	O483-80-57
					O413-40-43	O483-80-59
					O413-40-45	O483-80-61
					O413-40-47	
					O413-40-49	
					O413-40-51	
					O413-40-53	
					O413-40-55	
					O413-40-57	
					O413-40-59	
					O413-40-61	

Part #	R380	MM	SM	CWDM - 40km	CWDM - 80km
Protocol	ESCON	O292-M5	O293-20	O413-40-31	O413-80-47
Data Rate	200Mbps		O2A3-10	O413-40-33	O413-80-49
				O413-40-35	O413-80-51
				O413-40-37	O413-80-53
				O413-40-39	O413-80-55
				O413-40-41	O413-80-57
				O413-40-43	O413-80-59
				O413-40-45	O413-80-61
				O413-40-47	
				O413-40-49	
				O413-40-51	
				O413-40-53	
				O413-40-55	
				O413-40-57	
				O413-40-59	
				O413-40-61	

Part #	R380	MM	SM	CWDM - 40km	CWDM - 80km
Protocol	OC-12/STM-4	O292-M5	O293-20	O413-40-31	O413-80-47
Data Rate	622Mbps		O2A3-10	O413-40-33	O413-80-49
				O413-40-35	O413-80-51
				O413-40-37	O413-80-53
				O413-40-39	O413-80-55
				O413-40-41	O413-80-57
				O413-40-43	O413-80-59
				O413-40-45	O413-80-61
				O413-40-47	
				O413-40-49	
				O413-40-51	
				O413-40-53	
				O413-40-55	
				O413-40-57	
				O413-40-59	
				O413-40-61	

Part #	R153, R752, 2752, R851	MM	SM	BWDM	CWDM - 40km	CWDM - 80km
Protocol	Gigabit Ethernet	O211-M5	O211-10	O311-10-31	O413-40-31	O411-80-31
Data Rate	1.25Gbps	O221-M5	O221-10	O311-10-49	O413-40-33	O411-80-33
			O211-25		O413-40-35	O411-80-35
			O211-40		O413-40-37	O411-80-37
			O211-70		O413-40-39	O411-80-39
			O211-1A		O413-40-41	O411-80-41
			O2A3-10		O413-40-43	O411-80-43
					O413-40-45	O411-80-45
					O413-40-47	O411-80-47
					O413-40-49	O411-80-49
					O413-40-51	O411-80-51
					O413-40-53	O411-80-53
					O413-40-55	O411-80-55
					O413-40-57	O411-80-57
					O413-40-59	O411-80-59
					O413-40-61	O411-80-61

Part #	R380	MM	SM	BWDM	CWDM - 40km	CWDM - 80km
Protocols	Fibre Channel 1	O211-M5	O211-10	O311-10-31	O413-40-31	O411-80-31
	Gigabit Ethernet	O221-M5	O221-10	O311-10-49	O413-40-33	O411-80-33
Data Rate	1.06G - 1.25G		O211-25		O413-40-35	O411-80-35
			O211-40		O413-40-37	O411-80-37
			O211-70		O413-40-39	O411-80-39
			O211-1A		O413-40-41	O411-80-41
			O2A3-10		O413-40-43	O411-80-43
					O413-40-45	O411-80-45
					O413-40-47	O413-80-47
					O413-40-49	O413-80-49
					O413-40-51	O413-80-51
					O413-40-53	O413-80-53
					O413-40-55	O413-80-55
					O413-40-57	O413-80-57
					O413-40-59	O413-80-59
					O413-40-61	O413-80-61

Part #	R380	MM	SM	CWDM - 40km	CWDM - 80km
Protocol	Fibre Channel 2	O221-M5	O221-10	O413-40-31	O413-80-47
Data Rate	2.125Gbps		O2A3-10	O413-40-33	O413-80-49
				O413-40-35	O413-80-51
				O413-40-37	O413-80-53
				O413-40-39	O413-80-55
				O413-40-41	O413-80-57
				O413-40-43	O413-80-59
				O413-40-45	O413-80-61
				O413-40-47	
				O413-40-49	
				O413-40-51	
				O413-40-53	
				O413-40-55	
				O413-40-57	
				O413-40-59	
				O413-40-61	

Part #	R380	MM	SM	CWDM - 40km	CWDM - 80km
Protocol	OC-48		O2A3-10	O413-40-31	O413-80-47
Data Rate	2.488Gbps			O413-40-33	O413-80-49
				O413-40-35	O413-80-51
				O413-40-37	O413-80-53
				O413-40-39	O413-80-55
				O413-40-41	O413-80-57
				O413-40-43	O413-80-59
				O413-40-45	O413-80-61
				O413-40-47	
				O413-40-49	
				O413-40-51	
				O413-40-53	
				O413-40-55	
				O413-40-57	
				O413-40-59	
				O413-40-61	

Specifications by Optic

Part #	Connector	Wavelength	Data Rate	RX Input Sensitivity	TX Power Output	Typical Link Budget	Max Supported Distance	Cable Type
O211-M5	LC	850nm	1.0625Gbps to 1.25Gbps	-19 dBm (guaranteed) -22 dBm (typical) 0 dBm (saturation)	-9 dBm to -3.5 dBm -6 dBm (typical)	16 dB	500 meters	50/125 or 62.5/125µm multimode
O221-M5	LC	850nm	1.0625Gbps to 2.125Gbps	-18 dBm (guaranteed) -22 dBm (typical) 0 dBm (saturation)	-9 dBm to -3 dBm -6 dBm (typical)	16 dB	500 meters	50/125 or 62.5/125µm multimode
O280-M2	LC	1310nm	45Mbps to 155Mbps	-32 dBm (guaranteed) -34 dBm (typical) -14 dBm (saturation)	-19 dBm to -14 dBm -17 dBm (typical)	17 dB	2km	50/125 or 62.5/125µm multimode
O292-M5	LC	1310nm	50Mbps to 700Mbps	-26 dBm (guaranteed) -28 dBm (typical) -12 dBm (saturation)	-20 dBm to -14 dBm -18 dBm (typical)	10 dB	500 meters @ 622Mbps 2km @ 156Mbps	50/125 or 62.5/125µm multimode
O311-10-49 (BWDM)	SC	1490nm TX 1310nm RX	1.0625Gbps to 1.25Gbps	-22 dBm (guaranteed) -24 dBm (typical) -3 dBm (saturation)	-9 dBm to -3 dBm -6 dBm (typical)	18 dB	10km	9/125µm singlemode
O311-10-31 (BWDM)	SC	1310nm TX 1490nm RX	1.0625Gbps to 1.25Gbps	-22 dBm (guaranteed) -24 dBm (typical) -3 dBm (saturation)	-9 dBm to -3 dBm -6 dBm (typical)	18 dB	10km	9/125µm singlemode
O383-20-31 (BWDM)	SC	1310nm TX 1550nm RX	10Mbps to 155Mbps	-28 dBm (guaranteed) -30 dBm (typical) -8 dBm (saturation)	-14 dBm to -8 dBm -11 dBm (typical)	19 dB	20km	9/125µm singlemode
O383-20-55 (BWDM)	SC	1550nm TX 1310nm RX	10Mbps to 155Mbps	-28 dBm (guaranteed) -30 dBm (typical) -8 dBm (saturation)	-14 dBm to -8 dBm -11 dBm (typical)	19 dB	20km	9/125µm singlemode
O283-20	LC	1310nm	45Mbps to 155Mbps	-28 dBm (guaranteed) -32 dBm (typical) -8 dBm (saturation)	-15 dBm to -8 dBm -11.5 dBm (typical)	20.5 dB	20km	9/125µm singlemode
O293-20	LC	1310nm	125Mbps to 622Mbps	-28 dBm (guaranteed) -30.5 dBm (typical) -8 dBm (saturation)	-15 dBm to -8 dBm -11.5 dBm (typical)	19 dB	20km	9/125µm singlemode
O2A3-10	LC	1310nm	155Mbps to 2.67Gbps	-20 dBm (guaranteed) -22 dBm (typical) 0 dBm (saturation)	-10 dBm to -3 dBm -6 dBm (typical)	16 dB	10km	9/125µm singlemode
O411-80-31 to O411-80-45 (CWDM)	LC	CWDM wavelength 1310-1450nm	1.062Gbps to 1.25Gbps	-24 dBm (guaranteed) -26 dBm (typical) 0 dBm (saturation)	0 dBm to 5 dBm 2 dBm (typical)	28 dB	80km	9/125µm singlemode
O411-80-47 to O411-80-61 (CWDM)	LC	CWDM wavelength 1470-1610nm	622Mbps to 1.25Gbps	-23 dBm (guaranteed) -25 dBm (typical) 0 dBm (saturation)	0 dBm to 5 dBm 2 dBm (typical)	27 dB	80km	9/125µm singlemode
O413-40-31 to O413-40-61 (CWDM)	LC	CWDM wavelength 1310-1610nm	155Mbps to 2.7Gbps	-20 dBm (guaranteed) -22 dBm (typical) 0 dBm (saturation)	0 dBm to 4 dBm 1.5 dBm (typical)	23.5 dB	40km	9/125µm singlemode
O413-80-47 to O413-80-61 (CWDM)	LC	CWDM wavelength 1470-1610nm	155Mbps to 2.7Gbps	-30 dBm (guaranteed) -32 dBm (typical) -8 dBm (saturation)	0 dBm to 4 dBm 1.5 dBm (typical)	33.5 dB	80km	9/125µm singlemode
O483-80-47 to O483-80-61 (CWDM)	LC	CWDM wavelength 1470-1610nm	45Mbps to 155Mbps	-34 dBm (guaranteed) -36 dBm (typical) -3 dBm (saturation)	-5 dBm to 0 dBm -3 dBm (typical)	33 dB	80km	9/125µm singlemode