

TECHNICAL SPECIFICATIONS - MPO CONNECTORS

Connector Housing	PET
Connector Ferrule	PPS
Boot	Silicone
SM Backbone	Aluminum
MM Backbone	Aluminum
Flame Test	UL-94 V-0
Max.Insertion Loss	0.3dB

TECHNICAL SPECIFICATIONS - COMPLETE ASSEMBLIES

SM Attenuation @ 1300nm	Mean:0.35 dB Sigma: 0.12dB
MM Attenuation @ 1300nm	Mean:0.35 dB Sigma: 0.12dB
SM Return Loss	Min:55 dB Mean: 60dB
MM Return Loss	Min:25 dB D Max:0.2dB
SM Connection Durability	D Max:0.2dB
MM Connection Durability	D Max:0.2 dB
SM Mating Cycles	500
MM Mating Cycles	500
Operating Temp.	-0 to +70C
Installation Temp.	-0 to +70C
Storage Temp.	-40 to +70C

DURABILITY TESTS - MAXIMUM ATTENUATION INCREASE AFTER TEST

Test	Max. Increase	Notes
Temperature Cycling: -40 to +85C	0.2 dB	10 Cycles
High Temp. Endurance: +85C	0.2 dB	96 Hours
Low Temp. Endurance: -40C	0.2 dB	96 Hours
High Humidity Endurance: 95% RH @ +40C	0.2 dB	96 Hours
Vibration Endurance: 10-55 Hz, 1.5 mm	0.2 dB	P to P
Tensile Endurance: 0-10 Kgf @ 1 minute	0.2 dB	-
Connection Durability: 1000 cycles	0.2 dB	-

ORDERING INFORMATION

HCS P/N	Description	Length mm	Notes
TFO-X12DD-50C	1xMPO-1xMPO (Female-Female) 12F LS0H FO Assembly	5	-
TFO-X12DD-A0C	1xMPO-1xMPO (Female-Female) 12F LS0H FO Assembly	10	-
TFO-X12DD-A5C	1xMPO-1xMPO (Female-Female) 12F LS0H FO Assembly	15	-
TFO-X12DD-C0C	1xMPO-1xMPO (Female-Female) 12F LS0H FO Assembly	30	-
TFO-X12DD-E5C	1xMPO-1xMPO (Female-Female) 12F LS0H FO Assembly	55	-
TFO-X12DD-H0C	1xMPO-1xMPO (Female-Female) 12F LS0H FO Assembly	80	-
TFO-X24DD-50C	2xMPO-2xMPO (Female-Female) 24F LS0H FO Assembly	5	-
TFO-X24DD-A0C	2xMPO-2xMPO (Female-Female) 24F LS0H FO Assembly	10	-
TFO-X24DD-A5C	2xMPO-2xMPO (Female-Female) 24F LS0H FO Assembly	15	-
TFO-X24DD-C0C	2xMPO-2xMPO (Female-Female) 24F LS0H FO Assembly	30	-
TFO-X24DD-E5C	2xMPO-2xMPO (Female-Female) 24F LS0H FO Assembly	55	-
TFO-X24DD-H0C	2xMPO-2xMPO (Female-Female) 24F LS0H FO Assembly	80	-
TFO-X12EE-50C	1xMPO-1xMPO (Female-Female) 24F LS0H FO Assembly	5	-
TFO-X12EE-A0C	1xMPO-1xMPO (Female-Female) 24F LS0H FO Assembly	10	-
TFO-X12EE-A5C	1xMPO-1xMPO (Female-Female) 24F LS0H FO Assembly	15	-
TFO-X12EE-C0C	1xMPO-1xMPO (Female-Female) 24F LS0H FO Assembly	30	-
TFO-X12EE-E5C	1xMPO-1xMPO (Female-Female) 24F LS0H FO Assembly	55	-
TFO-X12EE-H0C	1xMPO-1xMPO (Female-Female) 24F LS0H FO Assembly	80	-

"FO" shall be replaced by the relevant Fiber P/N.

"X" shall be replaced by the relevant Cable Type.

"C" shall be replaced by the Jacket Color.

Note: Please contact HCS Customer Service for polarity TYPE (A,B or C)