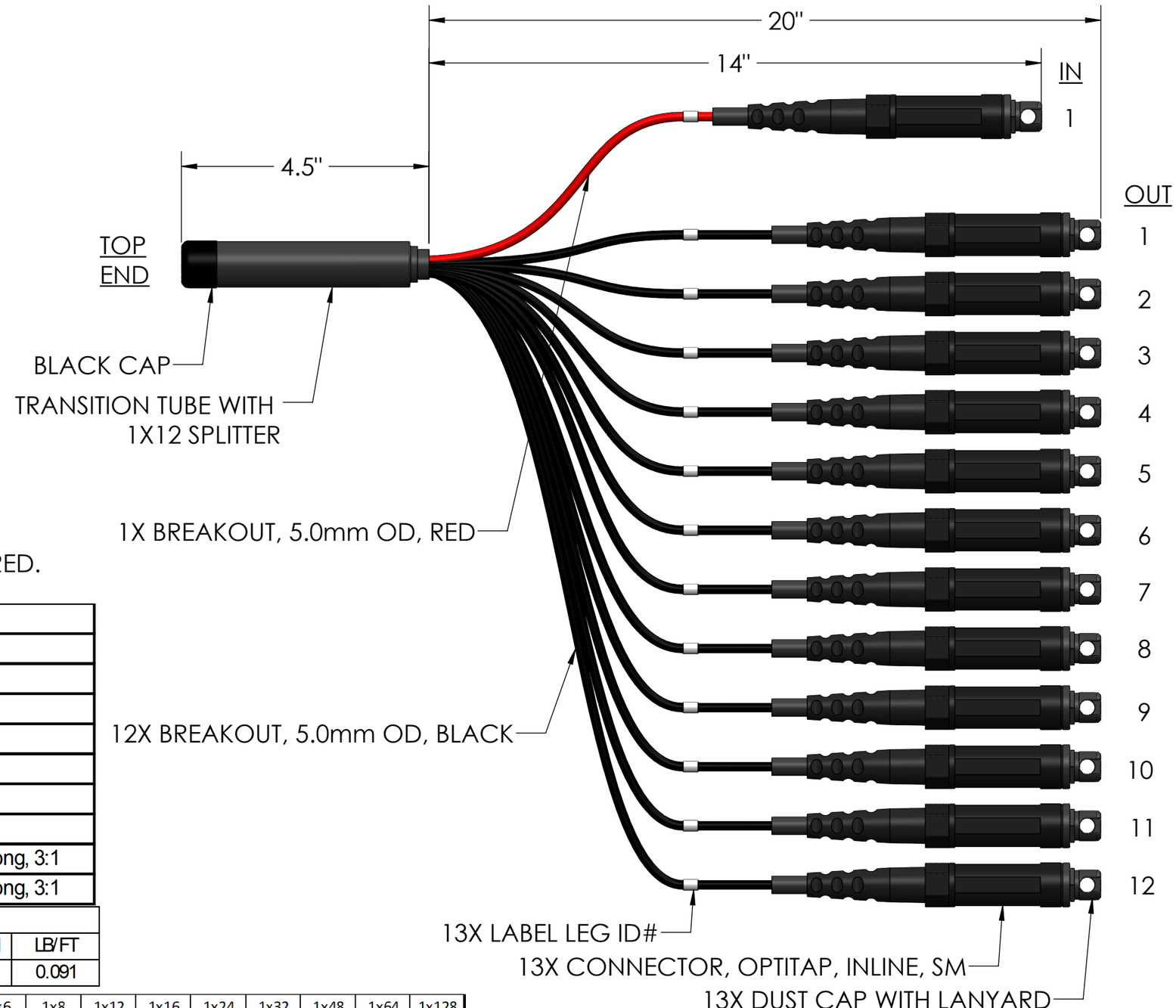
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	07-10-25	BDLS



NOTE:
- 900um OD FIBER SPLITTER PREFERRED.

To build one 12-Strand in-line Squid	
Qty.	Description
1	Nylon Tubing, See dimensions below.
1	1 x 12 Optical Splitter
1	14" Red Furcation Tubing
12	20" Black Furcation Tubings
13	OptiTap connector kits
50 ml	Black Epoxy , Loctite EA E-60NC
1	Black Heat Shrink tubing, 1 ¼" x 4.50" long, 3:1
1	Black Heat Shrink tubing, 1 ¼" x 1.50" long, 3:1

NYLON 66 BUSHING					
O.D. SIZE	I.D.SIZE	WALL	OD/ID TOL	LENGTH	LB/FT
1"	7/8"	0.062"	0.010"	60"	0.091

Parameter	1x2	1x3	1x4	1x6	1x8	1x12	1x16	1x24	1x32	1x48	1x64	1x128
Working Wavelength (nm)	1260-1650											
Fiber Type	G657A1 or Customized											
Insertion Loss (dB)	3.9	6.1	7.2	9	10.2	12.5	13.5	15.5	16.8	18.4	20.1	23.8
Uniformity (dB)	≤0.4	≤0.5	≤0.5	≤0.6	≤0.8	≤1.0	≤1.0	≤1.5	≤1.5	≤1.8	≤1.8	≤2.5
Polarization Dependent Loss (dB)	≤0.25	≤0.25	≤0.25	≤0.25	≤0.25	≤0.3	≤0.3	≤0.3	≤0.3	≤0.4	≤0.35	≤0.35
Return Loss (dB)	≥55											
Directionality (dB)	≥55											
Fiber Length (m)	1.0 or Customized											
Temperature Stability (dB)	-40°C to -85°C (≤0.5)											
Working Temperature °C	-40°C to -85°C											
Storage Temperature °C	-40°C to -85°C											
Maximum Power (nW)	1,000											

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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM.

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TITLE:

DRAWN BY:	DATE:	SIZE:	PART NUMBER:	REV:
TA	07-10-25	CUSTOM	BA-1X12SM53-2000	
INITIATED BY: BDLS	DATE: 07-10-25	SCALE: CUSTOM		SHEET: 1 OF 1