

## PRODUCT DATA SHEET

**P/N: 55-C<sub>1</sub>C<sub>2</sub>T-FC-D-LL**

### OPTICAL BREAKOUT and MINI-BREAKOUT CABLE ASSEMBLIES

#### Features

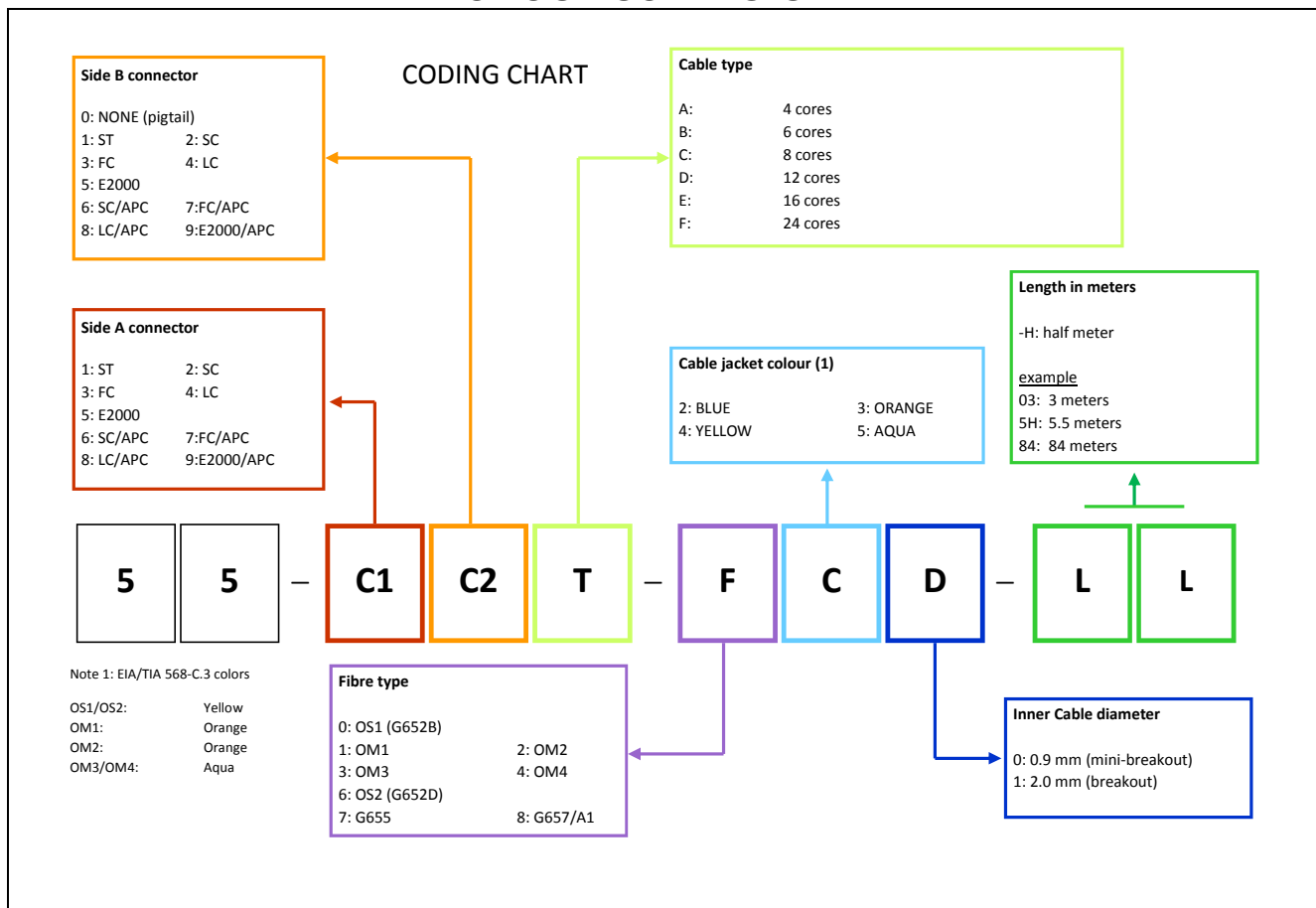
ST, SC, FC, LC, and E2000™ connectors  
 Single mode: OS1, G652D, G655, G657/A1 fiber  
 Multi mode: OM1, OM2, OM3 and OM4 fiber  
 PC and APC polishing  
 0.9 mini-breakout and 2.0 mm (breakout) individual cable diameter  
 LSZH jacket, RoHS compliant

#### Benefits

Available in any length and connector combination  
 Reliable and durable connectivity  
 Individual testing reporting measured IL and RL  
 Door-to-door service available for fast product delivery<sup>1</sup>  
 Full traceability, each product being identified with a unique serial number

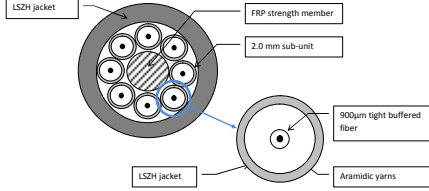
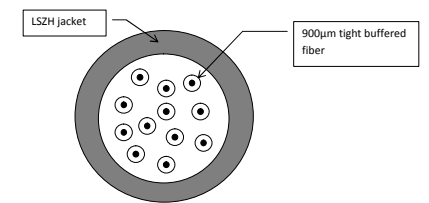


## PRODUCT CODING CHART

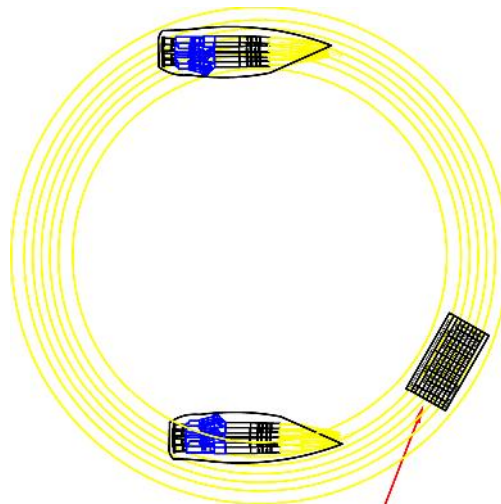
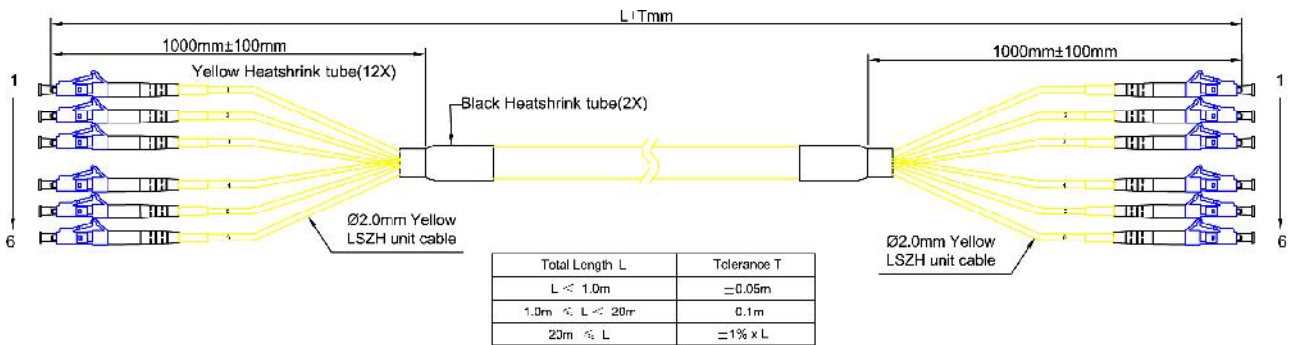


<sup>1</sup> Commercial restrictions may apply

## TECHNICAL FEATURES

Basic Features		PC		APC						
IL-Insertion Loss (IEC 61300-3-4)	SM	≤ 0.30 dB		≤ 0.25 dB						
	MM	≤ 0.30 dB		≤ 0.30 dB						
RL-Return Loss (IEC 61300-3-6)	SM	≤ -45dB		≤ -60dB						
	MM	≤ -35dB		≤ -35dB						
Mating Durability(IEC 61300-2-2, 500 times)		ΔIL ≤ 0.15dB, ΔRL ≤ 5dB								
<b>Mechanical</b> (individual fiber cables)										
Drop	IEC 61300-2-12, 1.5 m, 5 drops, no damage				ΔIL ≤ 0.2 dB					
Vibration	IEC 61300-2-1, 10-55 Hz, 0.75mm amplitude, 0.5 hrs/axis				ΔIL ≤ 0.2 dB					
Flex	Telcordia GR326(4.4.3.2), 0.9kg, ±90°,100 cycles, cable Ø≥2mm				ΔIL ≤ 0.2 dB					
Twist	Telcordia GR326(4.4.3.3), 1.35kg load, ±2.5 turns,10 cycles, cable Ø≥2mm				ΔIL ≤ 0.2 dB					
Pull proof	Telcordia GR336(4.4.3.4), 3.4 kg@90°, 6.8kg@0°, cable Ø≥2mm				ΔIL ≤ 0.2 dB					
Coupling strength	IEC 61300-2-6, 4.2kg, 2 min				ΔIL ≤ 0.2 dB					
Static bending	IEC 794-1-2, 60 mm dia, 10 turns				ΔIL ≤ 0.2 dB					
Crushing	IEC 794-1-2, 102kg for cable Ø≥2mm, 10.2kg for 900µm cable				ΔIL ≤ 0.2 dB					
<b>Environmental</b> (overall)										
Cold	IEC 61300-2-17, -20°C, 96 hrs				ΔIL ≤ 0.2 dB					
Dry heat	IEC 61300-2-18, 70°C, 96 hrs				ΔIL ≤ 0.2 dB					
Damp heat	IEC 61300-2-19, 40°C, 95% RH, 96 hrs				ΔIL ≤ 0.2 dB					
<b>Breakout cable design</b>										
	Fiber count	Cable Ø	Cable Weight	Overall Tensile Strength		Overall Crush	Bending radius		Individual cable tensile strength	
	#	[mm]	[kg/km]	Short term [N]	Long term [N]	[N/cm]	Short term [mm]	Long term [mm]	Short term [N]	Long term [N]
	4	8.9	55	1000	500	2000	20D	10D	150	80
	6	9.1	76	1000	500	2000	20D	10D	150	80
	8	10.3	100	1500	750	2000	20D	10D	150	80
	12	13.0	160	1500	750	2000	20D	10D	150	80
	16	14.0	180	2500	1000	2000	20D	10D	150	80
	24	15.0	200	2500	1000	2000	20D	10D	150	80
<b>Mini-Breakout cable design</b>										
	Fiber count	Cable Ø	Cable Weight	Overall Tensile Strength		Overall Crush	Bending radius		Individual cable tensile strength	
	#	[mm]	[kg/km]	Short term [N]	Long term [N]	[N/cm]	Short term [mm]	Long term [mm]	Short term [N]	Long term [N]
	4	4.8	40	400	200	1000	20D	10D	-	-
	6	5.3	49	400	200	1000	20D	10D	-	-
	8	5.3	52	500	250	1000	20D	10D	-	-
	12	7.0	84	500	250	1000	20D	10D	-	-
	16	8.0	103	500	250	1000	20D	10D	-	-
24	9.0	120	600	300	1000	20D	10D	-	-	
<b>Fibre Properties (OS1, OM1÷3)</b>										
Property	Units	OS1	OM1	OM2	OM3					
Max. Attenuation	dB/km	0.4/0.3	3.0	2.8	2.8					
	(nm)	(1310/1550)	(850)	(850)	(850)					
Min. Bandwidth	MHz·km	-	200/200	750	2000					
	(nm)	-	(850/1300)	(850)	(850)					
Dispersion coefficient	ps/nm <sup>2</sup> ·km	<3.0	-	-	-					
	(nm)	(1310)	-	-	-					
<b>Packing information</b>										
Quantity/package	1/package									

## TYPICAL BREAKOUT CABLE ASSEMBLY



Test Label

LC/MPCLC/UPC SM 9/125 6 core Jumper, 2.0mm unit cable LSZH L=50m					
No.	A Side		B Side		Serial No.:1109220001
	Ins.Loss	Ret.Loss	Ins.Loss	Ret.Loss	
1	0.12 dB	55.3 dB	0.07 dB	56.3 dB	
2	0.14 dB	56.3 dB	0.11 dB	55.7 dB	
3	0.18 dB	55.4 dB	0.14 dB	56.4 dB	
4	0.07 dB	57.0 dB	0.16 dB	57.8 dB	
5	0.12 dB	56.0 dB	0.13 dB	55.8 dB	
6	0.14 dB	56.5 dB	0.08 dB	56.2 dB	