PRODUCT DATA SHEET
P/N: 52-C_AC_BT-FCD-LL
HI-GRADE OPTICAL FIBER JUMPERS

Features
ST, SC, FC, LC connectors
OS1, OS2 (G652D), G655 and G657.A1 fiber
Simplex or duplex arrangements
UPC and APC polishing
0.9 (tight), 1.6, 2 or 3 mm cable diameter, LSZH
Exceed IEC and GR-326-CORE requirements

Benefits
High performance
Available in any length and connector combination
Individual connector end-face geometry inspection
Individual IL and RL test, results reported on product tag
Full traceability, each product being identified with a unique serial number
Door-to-door service available for fast product delivery[1]

PRODUCT CODING CHART

52	-	C_A	C_B	T	-	F	C	D	-	LL

Side A connector	Side B connector	Cable type	Fibre type	Jacket Colour	Cable Section	Length (in mtrs)
1: ST	0: pigtail	0: SX PC	0: OS1	1: White	0: 0.9 mm	-H: ½ meter
2: SC	1: ST	1: DX PC	6: G652D	2: Blue	1: 2.0 mm	Example:
3: FC	2: SC	8: SX APC	7: G655	4: Yellow	2: 3.0 mm	03: 3 m
4: LC	3: FC	9: DX APC	8: G657.A1		3: 1.6 mm	48: 48 m
	4: LC					4H: 4.5 m
						9H: 9.5 m

[1] Commercial restrictions apply

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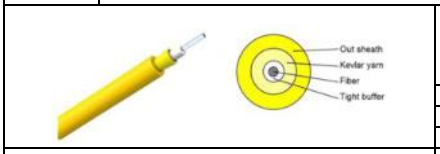
TECHNICAL FEATURES

Basic Features	**PC**	**APC**
IL-Insertion Loss (IEC 61300-3-4)	≤ 0.20dB	≤ 0.20dB
RL-Return Loss (IEC 61300-3-6)	≤ -50dB	≤ -60dB
Mating Durability(IEC 61300-2-2, 500 times)	ΔIL ≤0.15dB, ΔRL ≤5dB	

Mechanical		
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
Environmental		
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

Cable Features



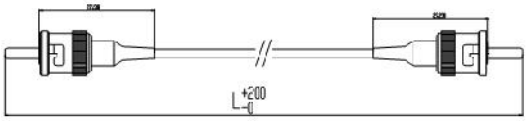
Jacket (IEC61034)	Cable Ø	Tight buffer Ø	Weight	Tensile strength N		Crush Load N/10cm		Bending radius	
	mm	mm	kg/km	Short term	Long term	Short term	Long term	Short term	Long term
LSZH	1.6	0.6	2.8	150	80	500	100	20D	10D
LSZH	2.0	0.9	4.3	150	80	500	100	20D	10D
LSZH	3.0	0.9	7.0	150	80	500	100	20D	10D

Jacket (IEC61034)	Cable section	Tight buffer Ø	Weight	Tensile strength N		Crush Load N/10cm		Bending radius	
	mm	mm	kg/km	Short term	Long term	Short term	Long term	Short term	Long term
LSZH	1.6x3.4	0.6	4.8	150	80	500	100	20D	10D
LSZH	2.0x4.2	0.9	7.0	150	80	500	100	20D	10D
LSZH	3.0x6.2	0.9	12.5	150	80	500	100	20D	10D

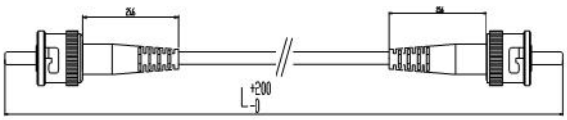
Fibre Properties (G652B-OS1)		
Property	*Unit*	*Value*
Attenuation @1310 nm	dB/km	≤0.38 Max (≤0.35 avg)
Attenuation @ 1550 nm	dB/km	≤0.25 Max (≤0.22 avg)
Chromatic dispersion 1285-1330 nm	ps/nm.km	≤3.5
Chromatic dispersion 1550 nm	ps/nm.km	≤18.0
Zero dispersion wavelength	nm	1300 to 1324
Zero dispersion slope	ps/nm2.km	≤0.092
Polarization mode dispersion	ps/√km	≤0.20
Cabled cut-off wavelength	nm	≤1320
Mode field diameter @ 1310 nm	µm	9.3±0.5
Core-clad concentricity error	µm	≤0.8
Cladding non circularity	%	≤1.0
Cladding diameter	µm	125 ± 1.0
Coating diameter	µm	245 ± 10

Environmental	
Operating temperature	-40° +85°C, RH ≤ 90% non condensing
Storage temperature	-40° +85°C, RH ≤ 90%
Identification	
Each product has a tag reporting a unique serial number and measured IL and RL at each connector side	
Packing information	
Quantity/package	1/bag, 10/master bag

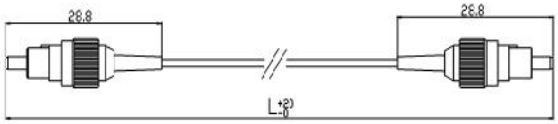
JUMPER LAYOUT



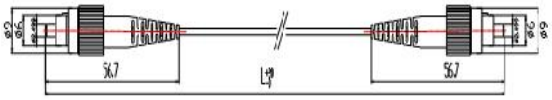
ST/ST 0.9 mm arrangement



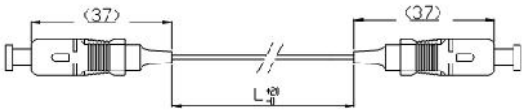
ST/ST 1.6, 2.0 and 3.0 mm arrangement



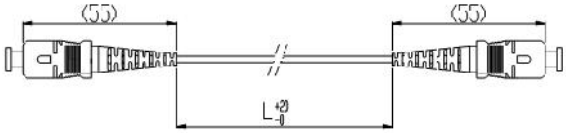
FC/FC 0.9 mm arrangement



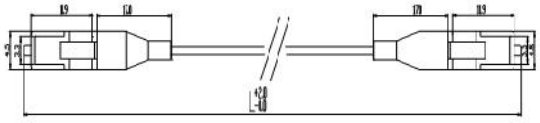
FC/FC 1.6, 2.0 and 3.0 mm arrangement



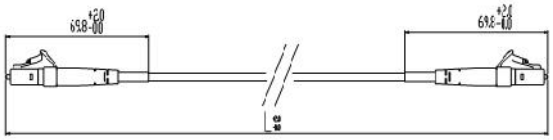
SC/SC 0.9 mm arrangement



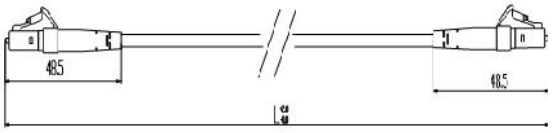
SC/SC 1.6, 2.0 and 3.0 mm arrangement



LC/LC 0.9 mm arrangement



LC/LC 2.0 mm arrangement



LC/LC 3.0 mm arrangement

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