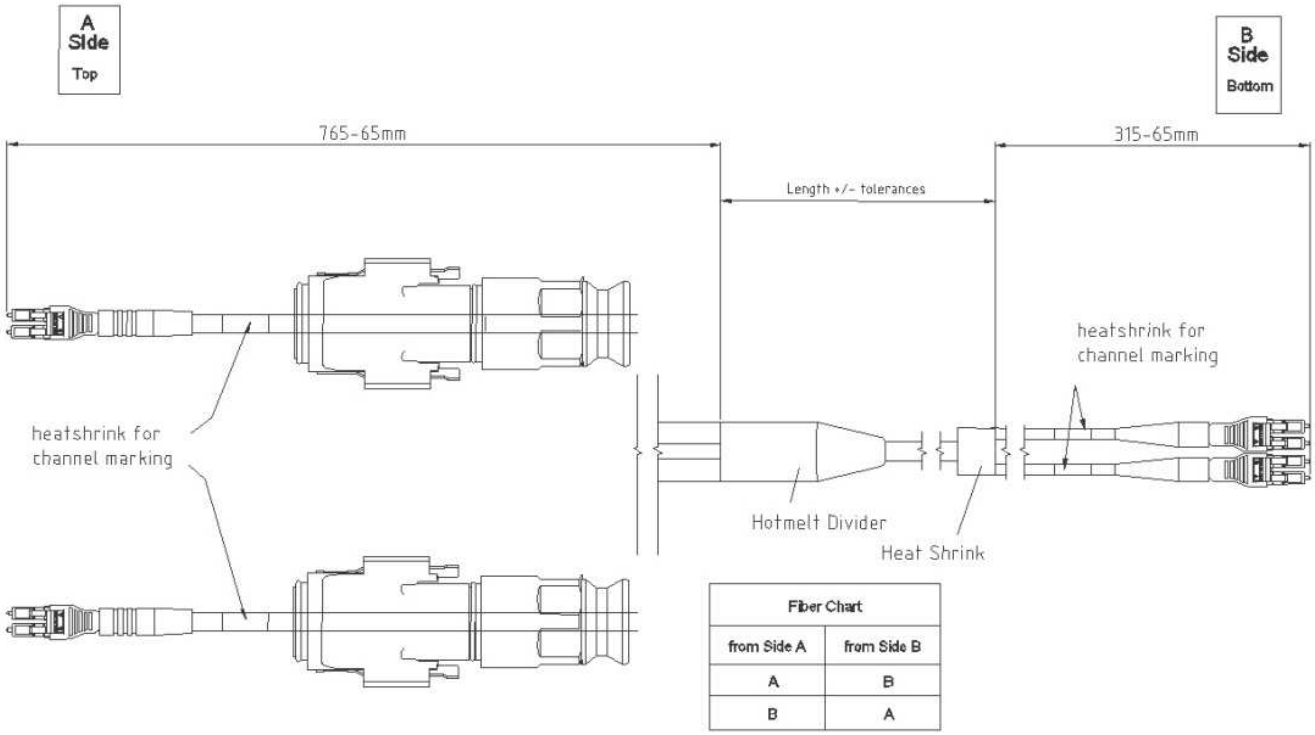
Technical Data Sheet

Rosenberger
Rosenberger Site Solutions, LLC

FTTA Fiber Cable Assembly
2xLCC – 9uG657 – 2xLCC

FB-L98B-089-XXX



Fiber Chart	
from Side A	from Side B
A	B
B	A

All dimensions are in mm; tolerances according to ISO 2768 m-H

Description

This 4 fiber optic jumper cable assembly connects remote radio heads (RRU) in telecommunication applications. Each side of the jumper cable assembly is equipped with 2 LC-Compact connectors. The connectors on top end (A Side) are overmolded, the connectors on bottom end (B side) comes with standard boots.
Divider on top end (A Side) is made in hotmelt technology and especially designed for solid straight connections. Divider at bottom end (B side) is done with a heat shrink.
The top end (A Side) is using 7mm fan-outs, the bottom end (B side) is using 2.9mm fan-out.
Each fanout of the Top end (A side) is equipped with a Rosenberger Fiber Enclosure (RFE). The RFE is a watertight and UV resistant enclosure for various connectors, like fiber optic, data, power...
It is a snap on system for easy, secure and reliable installation.
This assembly could be used indoor and outdoor. The cable is UV protected and flame retardant.

Available Variants

Type	Length (mm)	Length (feet)	weight (g) / pce
L98B-089-18300	18300±1000	60	1248
L98B-089-24400	24400±1500	80	1577
L98B-089-30500	30500±1500	100	2715
L98B-089-36500	36500±1500	120	3044
L98B-089-42600	42600±1500	140	3373
L98B-088-48700	48700±1500	160	3702

Cable assemblies in additional length variants are available.

Parts

Connector top	2 x LC-Compact, single mode, Black boot (molded)
Connector bottom	2 x LC-Compact, single mode, Blue boot
Cable	Flame retardant PVC acc. to IEC 60332-1
Rosenberger Fiber Enclosure (RFE)	Watertight and UV resistant fiber enclosure for various connectors

Corporate Headquarters
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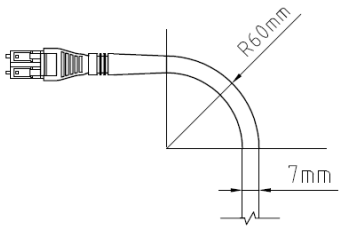
2xLCC – 9uG657 – 2xLCC

FB-L98B-089-XXX

Optical data

Cable	4 fibres	
Fiber	9/125 µm single mode optical fibre according to ITU-T G.657A 1	
Attenuation Coefficient	≤ 0.40 dB / km	λ = 1310 nm
	≤ 0.25 dB / km	λ = 1550 nm
Connector	LC-Compact	
Insertion loss	typ. 0.10 dB	
	max. 0.30 dB	
Return loss	typ. 50 dB (UPC)	
A Side		
Bending radius min. at boot	60mm	



Mechanical data cable

Cable diameter, jacket	7 mm
Cable diameter fanout A	7 mm
Cable diameter fanout B	2.9 mm
Fiber marking:	coloured heat shrink
Channel 1:	blue heat shrink
Channel 2:	orange heat shrink

Minimum bending radius cable

Installation	105 mm
Operation	70 mm

Max. tensile strength cable

Installation	1200 N
Permanent	600 N

Crush resistance

Short term	2200 N / dm
Long term	800 N / dm

Impact resistance acc. to IEC 60794-1-2, method E4

3 Impacts	1.5 Nm

Mechanical data RFE

Mating cycles	> 50
Tightening torque gland	1 Nm
Suitable cable diameter	4.5 – 10mm
Suitable connectors	LC, MTP, RJ45...
Pulling axial	> 150N
Pulling 90°	> 75N

Environmental data cable

Temperature range operation	-40 °C to +85 °C
Temperature range storage	-55 °C to +85 °C
Temperature range installation	-20 °C to +60 °C
2002/95/EC (RoHS)	compliant
UV resistance	acc. to IEC60068-2-5
Good resistance to oil, petrol and leach.	

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Environmental data RFE

Operation temperature range	-40°C to +85°C
Storage temperature range	-40°C to +90°C
Degree of protection	IEC 60529, IP67 in mated condition
Temperature/Humidity	IEC 61300-2-22
Salt mist	IEC 61300-2-26 (192h), GR 3108 (720h)
Vibration	IEC 61300-2-1
2002/95EC (RoHS)	compliant
Chemical resistant acc. to GR-487	
UV resistant	
Fire protection	UL94 V0

Packing

Standard	
Length < 30 m	tbd
Length ≥ 30 m	tbd

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
S.Schlomka	29/07/13	S.Gleich	29/07/13	200	13-0003	D.Eisenhut	14/11/13

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