



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

Description

These fibre optic cable assemblies connect remote radio heads in telecommunication applications. The connector on top end (A Side) are overmolded, the connectors on bottom end (B side) use a standard boot. The assembly comes with a Rosenberger Fiber Enclosure (RFE) on side A including a pulling option to hoist the cable. On the bottom end (B Side) the divider is done with a heat-shrink and with 2.1mm fan-outs. They can be used indoor and outdoor. The cable is flame retardant, halogen free and UV resistant.

Available Variants

Type	Length (mm)	Weight (g) / pce
L98B-A0195-10000	10000	360
L98B-A0195-15000	15000	490
L98B-A0195-20000	20000	620
L98B-A0195-30000	30000	880
L98B-A0195-40000	40000	1140
L98B-A0195-50000	50000	1400
L98B-A0195-60000	60000	1660
L98B-A0195-70000	70000	1920
L98B-A0195-80000	80000	2180
L98B-A0195-90000	90000	2440
L98B-A0195-100000	100000	2700
L98B-A0195-125000	125000	3350
L98B-A0195-150000	150000	4000

Length (m)	Tolerances (mm)
L ≤ 5	+/-50
5 < L ≤ 10	+/-100
10 < L ≤ 20	+/-200
20 < L ≤ 50	+/- 500
L > 50	+/-1000

Cable assemblies in additional length variants are available.

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/09_14/6.2

Parts

Connector top	1 x LC-CP, single mode
Connector bottom	1 x LC-Duplex, single mode
Cable	Halogen free TPU, flame retardant, UV resistant UL1581, Flame retardant IEC 60332-3-24 (Cat.C) Refer to 98Z105-S05
Rosenberger Fiber Enclosure (RFE)	Refer to 98Z105-S00/53
RFE Protection Cap Plug	

Optical data

Cable	2 fibres
Fiber	9/125 µm single mode optical fibre according to ITU-T G.657A2
Attenuation Coefficient	≤ 0.40 dB / km ≤ 0.25 dB / km
Connectors (A side)	LC-Compact
Insertion loss	max. 0.30 dB
Return loss	typ. 55 dB (UPC)
Connector (B side)	LC-Duplex
Insertion loss	max. 0.30 dB
Return loss	typ. 55 dB (UPC)

Mechanical data

Cable diameter, jacket	4.8 mm
Minimum bending radius cable	
Installation	20 mm
Operation	20 mm
Max. tensile strength cable	
Installation	450 N
Permanent	300 N
Crush resistance	3000 N / 100 mm (IEC 60794-1-2 clause 7.3)
Max. tensile strength connector	
LC-CP	70 N
LC Duplex	70 N
Hoisting grip/ option	
max. tensile strength- hoisting option RFE based for cables up to 100 meter max.	30 N

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF_35/09.14/6.2

Environmental data

Temperature range operation	-40 °C to +70 °C (IEC 60794-1-2)
Temperature range storage	-40 °C to +70 °C
Temperature range installation	-20 °C to +60 °C
RoHS	compliant

Packing

Standard	
Length < 30 m	1 pce in bag
Length ≥ 30 m	1 pce in box

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev	Engineering change number	Name	Date
U.Albrecht	09/04/15	S.Gleich	09/04/15	300	15-0011	U.Albrecht	17/11/15