

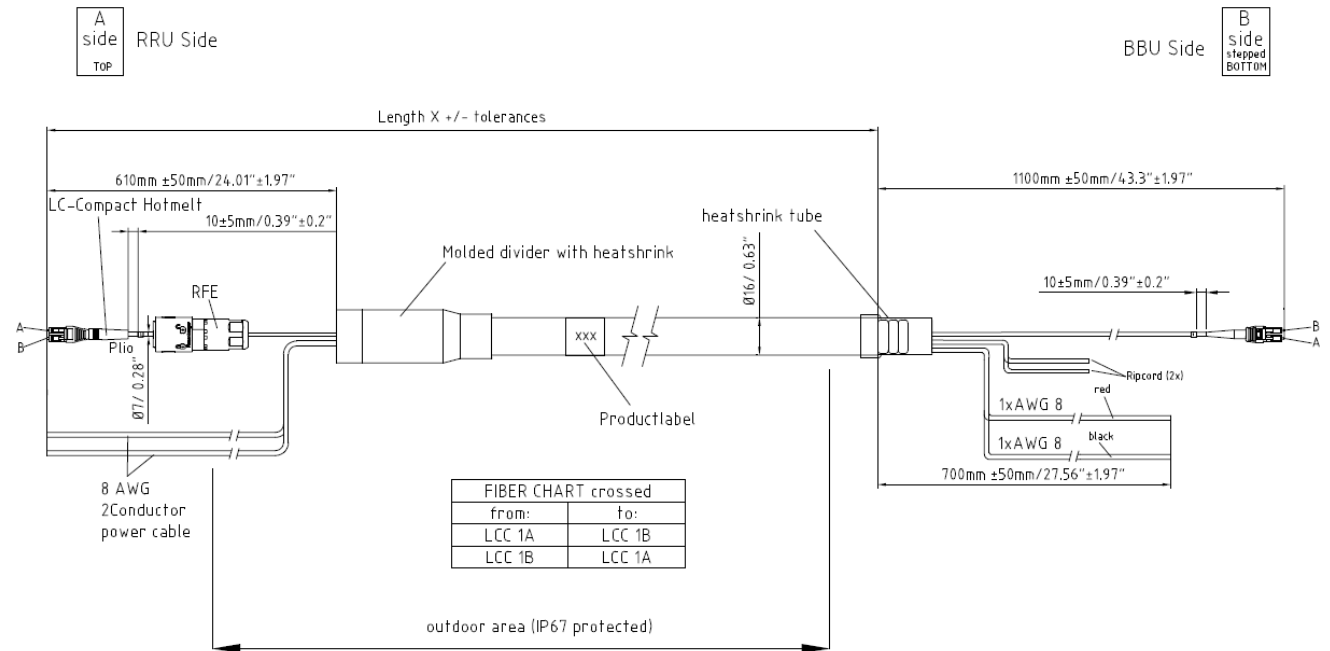
Technical Data Sheet

Rosenberger

FTTA Hybrid Jumper

LCC+RFE+2x8AWG+RFE-2F9μG657A2-
LCC+2x8AWG

HJ-H510211XX



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

Description

This 2 fiber FTTA hybrid jumper cable assembly connects remote radio heads (RRU) in telecommunication applications.

Side A consist of a 7 mm FO fan-out with an overmolded LC Compact connector as well as two 2 conductor 8 AWG shielded power connection fan-out. The LC C connector is protected with an RFE (Rosenberger Fiber Enclosure). The B Side of the corrugated hybrid jumper is designed to be connected to a FTTA box solution providing a 2,8 mm LC fan-out and a 2 wire 8 AWG interface for power connection.

Two ripcords below the copper tape provide an easy way to cut back the cable jacket on Side B.

The assemblies can be used indoor and outdoor, are UV protected and flame retardant.

Available Variants

Type	Length (Ft)	weight (g)/(lb) / pce
HJ-H51021106	6	tbd
HJ-H51021109	9	tbd
HJ-H51021112	12	tbd
HJ-H51021115	15	tbd

Length (m)

L ≤ 10
10 < L ≤ 20

Tolerance (mm)

+100/- 50
+/- 200

Other length on request Please mind derating!

Parts

Connector A	1 x LC Compact Duplex - overmolded, single mode
Connector B	1 x LC Compact Duplex - single mode
Cable	FRNC, UL Type 21285 black
Fiber marking	Identification ring on single fan-out
Ripcord	2x diametrically under corrugated copper-tape
RFE Rosenberger Fiber Enclosure	1x (see details in datasheet 98Z111-S00)

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Optical data

Cable	2 fibers
Fiber	9/125 μm single mode optical fiber according to ITU-T G.657A2
Cable attenuation	≤ 0.40 dB / km λ = 1310 nm ≤ 0.25 dB / km λ = 1550 nm
Connector A	LC Compact Duplex
Insertion loss	max. 0.30 dB
Return loss	typ. 55 dB (UPC)
Connector B	LC Compact Duplex
Insertion loss	max. 0.30 dB
Return loss	typ. 55 dB (UPC)

Electrical data

Power conductors	2 (black / red)
Conductor resistance	1.68 Ohm/1000ft@20°C
Operating voltage	150 V
Test voltage (rms 50Hz 1min)	1500 V
Derating according to	DIN EN60512-5-2: tbd

Mechanical data

Overall cable diameter, jacket	Ø16 +/- 0.3 mm
Divider Side A	~Ø36mm / ~150mm length
Fiber cable diameter	Ø7.0mm (Side A) Ø2.8mm (Side B)
Power cable diameter	AWG8 Ø5,4mm (Side A) AWG8 Ø5,4mm (Side B)
Shield conductor main cable	copper corrugation ½ Inch

Minimum bending radius

Cable	
Repeated	240 mm
Single	160 mm
FO Fanout (Ø2.8mm)	
Min. Bending Radius (Installation)	45 mm
Min. Bending Radius (In use)	30 mm

Max. tensile strength

Cable	500N
Fanout Side A (Ø7.0mm)	70N
Fanout- Side B (Ø2.8mm)	70N

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FTTA Hybrid Jumper LCC+RFE+2x8AWG+RFE-2F9μG657A2- LCC+2x8AWG				HJ-H510211XX			
Environmental data Temperature range operation-40 °C (-40 °F) up to 85 °C (185 °F) Temperature range storage-40 °C (-40 °F) up to 85 °C (185 °F) Temperature range installation-25 °C (-13 °F) up to 70 °C (158 °F) RoHScompliant (Directive 2011/65/EC) Low Smoke, Fire retardant, Zero HalogenUL –Style 21285 (80°C/150V) Flame retardantacc. to IEC 60332-3-24 (Cat. C) Halogen freeacc. to IEC 60754-1 Sunlight resistantacc. to UL 2556 Sec. 4.2.8.5 Smoke-densityacc. to IEC 61034 Packing Standard:1 pcs in plastic bag							
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
D. Nothegger	02.05.18	S.Gleich	02.05.18	100	18-0004	S.Gleich	02.05.18
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