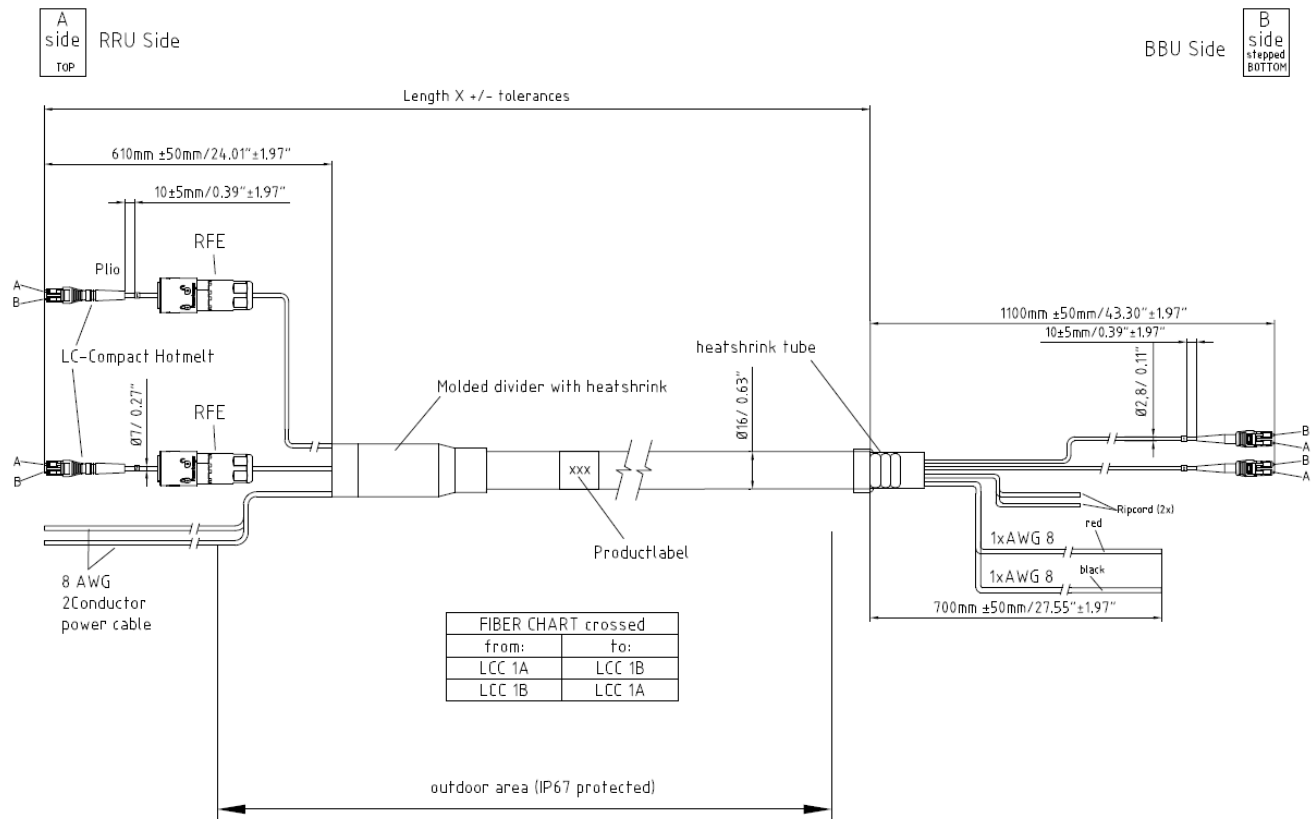


Technical Data Sheet

Rosenberger

FTTA Hybrid Jumper
2xAWG8+LCC+2 RFE-4F9μG657A2-
LCC+2xAWG8

HJ-H720212XX



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

Description

This 4 fiber FTTA hybrid jumper cable assembly connects remote radio heads (RRU) in telecommunication applications. Side A consist of two 7 mm FO fan-out with an overmolded LC Compact connector as well as two 2 wire 10 AWG shielded power connection fan-out. Fiber connectors are IP67 protected by the RFE enclosure. The B Side of the corrugated hybrid jumper is designed to be connected to a FTTA box solution providing two 2,8 mm LC fan-out and a 2 wire 8 AWG interface for power connection. Two ripcords underneath 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
HJ-H72021203	3	tbd
HJ-H72021206	6	tbd
HJ-H72021209	9	tbd
HJ-H72021212	12	tbd
HJ-H72021215	15	tbd
HJ-H72021220	20	tbd
HJ-H72021225	25	tbd
HJ-H72021230	30	tbd

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LCC+2xAWG8

HJ-H720212XX

Length (m)

$L \leq 10$

$10 < L \leq 20$

Tolerance (mm)

+100/- 50

+/- 200

Different length available on request. Please mind derating!

Parts

Connector A

2 x LC Compact Duplex - overmolded, single mode

Connector B

2 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)

2x RFE IP67 (see datasheet RFE Z111)

Optical data

Cable

4 fibers

Fiber

9/125 µm single mode optical fiber according to ITU-T G.657A2

Cable attenuation

≤ 0.40 dB / km

$\lambda = 1310$ nm

≤ 0.25 dB / km

$\lambda = 1550$ 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 connectors

2 (black / red)

Conductor resistance

1.68 Ohm/1000ft@20°C

Operating voltage range

up to 60 V DC / 48 V AC

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

~Ø30mm / ~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 1/2 Inch

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Technical Data Sheet				Rosenberger			
FTTA Hybrid Jumper 2xAWG8+LCC+2 RFE-4F9µG657A2-LCC+2xAWG8				HJ-H720212XX			
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					
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)					
RoHS		compliant (Directive 2011/65/EC)					
Low Smoke, Fire retardant, Zero Halogen		UL –Style 21285 (80°C/150V)					
Flame retardant		acc. to IEC 60332-3-24 (Cat. C)					
Halogen free		acc. to IEC 60754-1					
Sunlight resistant		acc. to UL 2556 Sec. 4.2.8.5					
Smoke-density		acc. 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	200	18-0004	S.Gleich	02.05.18
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