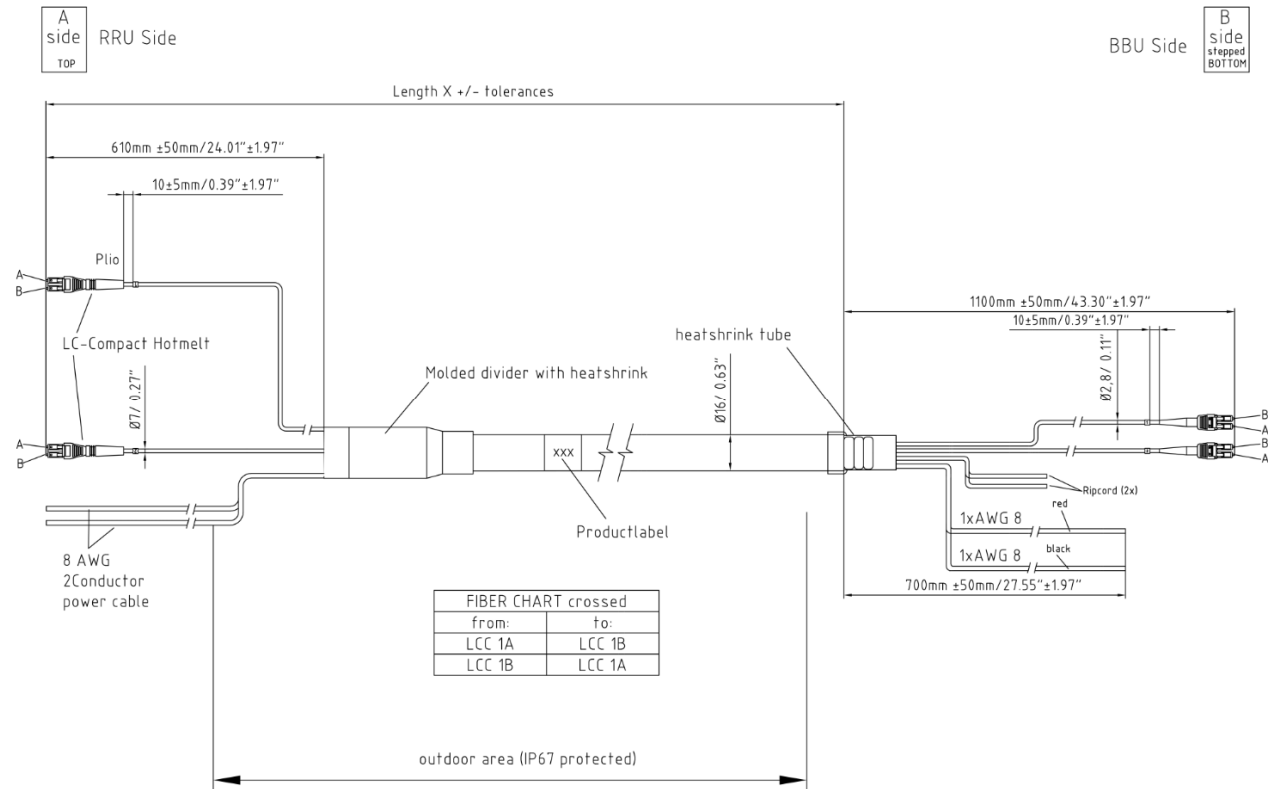


FTTA Hybrid Jumper 2xAWG8+2LCC-4F9μG657A2-2LCC+2xAWG8

HJ-H830321XX



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-H83032103	3	tbd
HJ-H83032106	6	tbd
HJ-H83032109	9	tbd
HJ-H83032112	12	tbd
HJ-H83032115	15	tbd
HJ-H83032120	20	tbd
HJ-H83032125	25	tbd
HJ-H83032130	30	tbd

Length (m)	Tolerance (mm)
$L \leq 10$	+100/- 50
$10 < L \leq 20$	+/- 200

Different length available on request. Please mind derating!

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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

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 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 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 ½ Inch

Minimum bending radius

Cable	
Repeated	240 mm
Single	160 mm

FO Fanout (Ø2.8mm)	
Min. Bending Radius (Installation)	45 mm

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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	18.05.18	S.Gleich	18.05.18	200	18-0004	S.Gleich	18.05.18
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