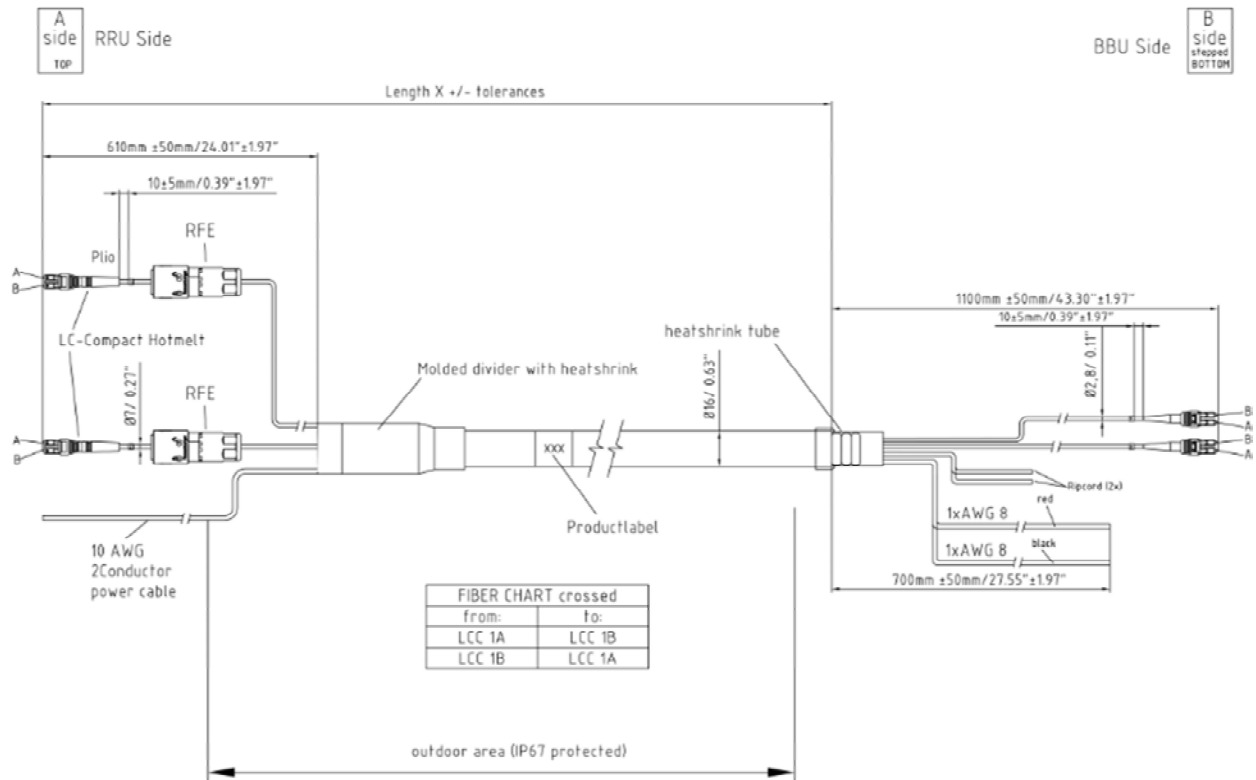




All dimensions are in mm; tolerances according to ISO 2768 m-H

Description

This 4 fiber FTTA hybrid jumper cable assembly connects remote radio heads (RRU) in telecommunication applications. Side A consists of two 7 mm FO fan-outs with two overmolded LC Compact connectors, which are protected with an RFE housing, as well as a 2-wire 10 AWG shielded power connection fan-out. 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-outs 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 (g)/(lb) / pce
HJ-H40005406	6	tbd
HJ-H40005409	9	tbd
HJ-H40005412	12	tbd
HJ-H40005415	15	tbd

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

Other length on request. Please mind derating!

FTTA Hybrid Jumper

LCC+RFE+2xAWG8-4F9μG657A2-LCC+2xAWG8

HJ-H400054XX

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	2xRosenberger Fiber Enclosure (see 98Z111-S00)

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	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	~Ø36mm / ~180mm 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

Technical Data Sheet

Rosenberger

FTTA Hybrid Jumper

LCC+RFE+2xAWG8-4F9μG657A2-LCC+2xAWG8

HJ-H400054XX

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	18.05.2018	S.Gleich	18.05.2018	100	18-0004	S.Gleich	18.05.18
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