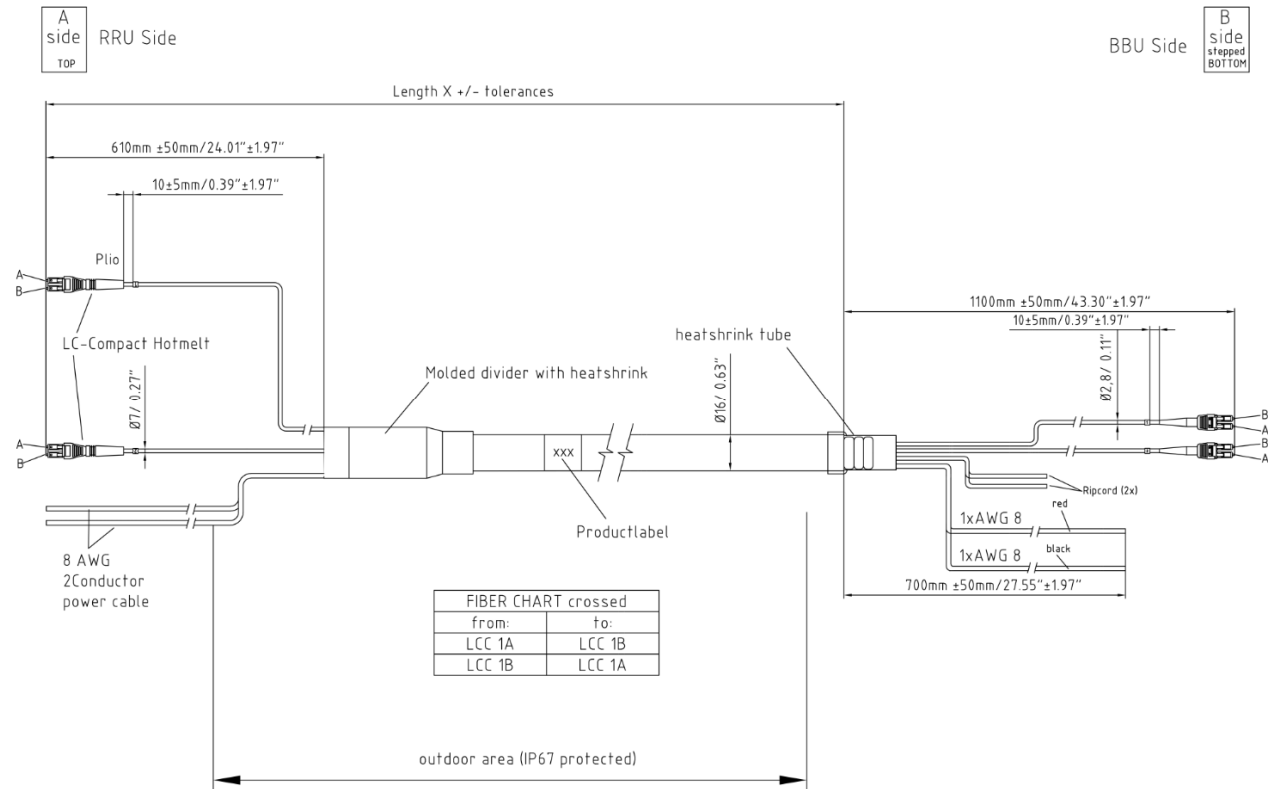


## FTTA Hybrid Jumper 2xAWG8+2LCC-4F9μG657A2-2LCC+2xAWG8

## 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!

**FTTA Hybrid Jumper**

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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 |

## FTTA Hybrid Jumper

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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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