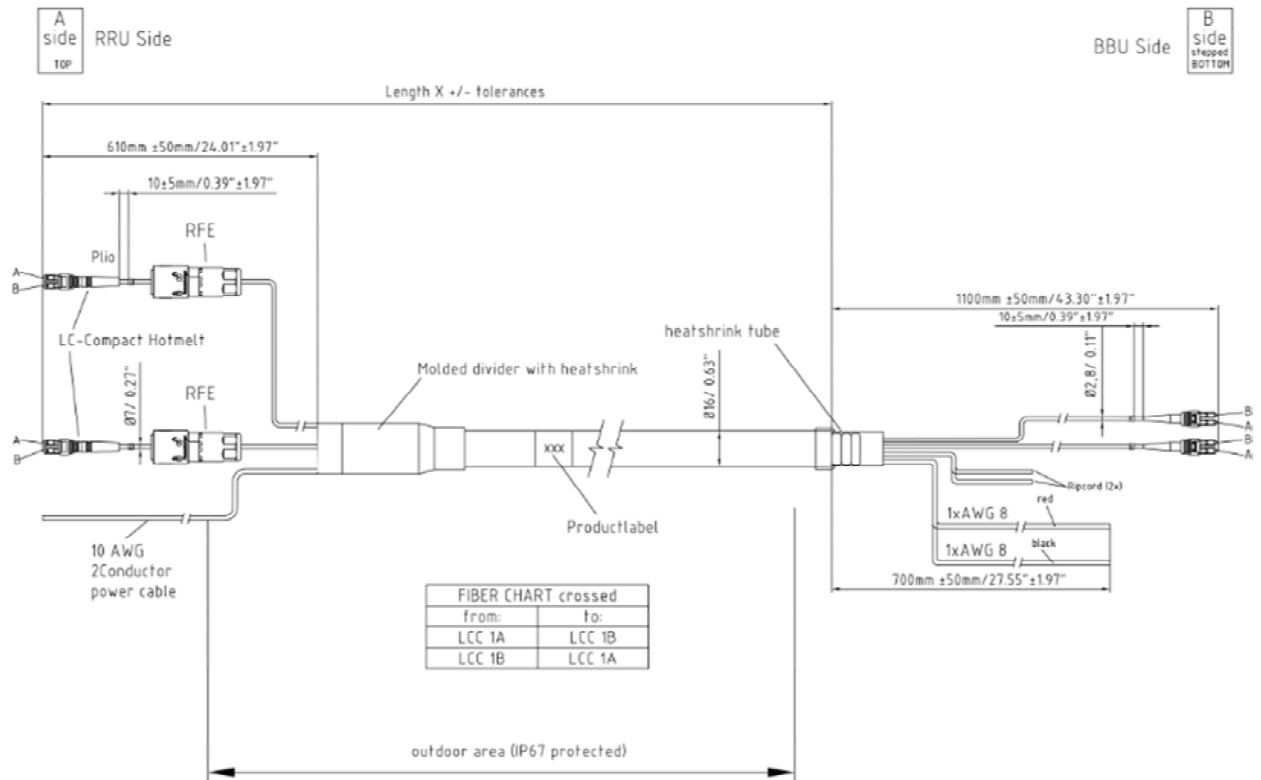




All dimensions are in mm; tolerances according to ISO 2768 m-H

### 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-out 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-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 (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<br>LCC+RFE+2xAWG8-4F9µG657A2-LCC+2xAWG8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |          |            | HJ-H400054XX                                                                                                                                           |                           |          |                |
| <div>Max. tensile strength</div> <div><div>Cable</div><div>500N</div></div> <div><div>Fanout Side A (Ø7.0mm)</div><div>70N</div></div> <div><div>Fanout- Side B (Ø2.8mm)</div><div>70N</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |          |            |                                                                                                                                                        |                           |          |                |
| <div>Environmental data</div> <div><div>Temperature range operation</div><div>-40 °C (-40 °F) up to 85 °C (185 °F)</div></div> <div><div>Temperature range storage</div><div>-40 °C (-40 °F) up to 85 °C (185 °F)</div></div> <div><div>Temperature range installation</div><div>-25 °C (-13 °F) up to 70 °C (158 °F)</div></div> <div><div>RoHS</div><div>compliant (Directive 2011/65/EC)</div></div> <div><div>Low Smoke, Fire retardant, Zero Halogen</div><div>UL –Style 21285 (80°C/150V)</div></div> <div><div>Flame retardant</div><div>acc. to IEC 60332-3-24 (Cat. C)</div></div> <div><div>Halogen free</div><div>acc. to IEC 60754-1</div></div> <div><div>Sunlight resistant</div><div>acc. to UL 2556 Sec. 4.2.8.5</div></div> <div><div>Smoke-density</div><div>acc. to IEC 61034</div></div> |            |          |            |                                                                                                                                                        |                           |          |                |
| <div>Packing</div> <div><div>Standard:</div><div>1 pcs in plastic bag</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |          |            |                                                                                                                                                        |                           |          |                |
| <div>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.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |          |            |                                                                                                                                                        |                           |          |                |
| 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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