



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

Description

FTTA direct trunks are fiber optical cable assemblies, connecting base stations and remote radio heads in telecommunication applications. This solution doesn't need any additional fiber termination box. Long cable legs on top and bottom end give the possibility of direct connection to the RRU and the equipment in the base station. The top end is equipped with 5mm outdoor fan-outs. The cable jacket is LSZH and UV protected, the cable can be used indoor and outdoor. The RDC connectors on top are IP67 protected. This ensures easy handling in an outdoor environment. The pulling sock on side A eases cable hoisting.

Available Variants

| Type | Length (mm) | Weight (g) / pce |
|----------------|-------------|------------------|
| L98B-128-10000 | 10000 | |
| L98B-128-30000 | 30000 | |
| L98B-128-50000 | 50000 | |
| L98B-128-70000 | 70000 | |

| Length (m) | Tolerances (mm) |
|--------------|-----------------|
| L <= 5 | +/- 50 |
| 5 < L <= 10 | +/- 100 |
| 10 < L <= 20 | +/- 200 |
| 20 < L <= 50 | +/- 500 |
| L > 50 | +/- 1000 |

Cable assemblies in additional length variants are available.

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

Parts

| | |
|----------------------|--|
| Connector top | 6 x RDC (Rosenberger Duplex Connector) female, single mode |
| Connector bottom | 6 x Rosenberger LC-Compact Duplex, single mode |
| Cable | OFNR rated UL1666. |
| Fiber marking top | Identification ring on single fan-out |
| Fiber marking bottom | Identification ring on single fan-out |

Optical data

| | |
|-------------------|---|
| Cable | 12 Fibers 9/125 µm single mode optical fiber according to ITU-T |
| Fiber | G657A1 |
| Cable attenuation | ≤0.35 dB / km λ = 1310 nm ≤0.25 dB / km λ = 1550 nm |
| Connector A | Rosenberger Duplex Connector female (RDCf) |
| Insertion loss | Typ. 0.25 dB Max. 0.50 dB |
| Return loss | Typ. 50 dB |
| Connector B | Rosenberger LC-Compact Duplex |
| Insertion loss | Max. 0.30 dB |
| Return loss | Typ. 55 dB |

Mechanical data cable

| | |
|--|--------|
| Cable diameter, jacket | 10 mm |
| Minimum bending radius cable | |
| Installation | 210 mm |
| Operation | 110 mm |
| Max. tensile strength cable | |
| Installation | 2700 N |
| Permanent | 800 N |
| Minimum bending radius single fan-out | |
| Single | 30 mm |
| Repeated | 30 mm |
| Max. tensile strength | 100 N |

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

FTTA Fiber Trunk
RDCf -12µG657 - LCC

L98B-128-XXX

Environmental data cable

| | |
|--------------------------------|------------------|
| Temperature range operation | -40 °C to +70 °C |
| Temperature range storage | -40 °C to +70 °C |
| Temperature range installation | -10 °C to +50 °C |
| RoHS/REACH | compliant |

Packing

| | |
|-----------------------|--|
| Standard: | |
| Length ≤ 20 m | 1 pce in box |
| 20 m < Length < 80 m | 1 pce on cardboard drum (Ø 500 mm) |
| 80 m ≤ Length < 150 m | 1 pce on cardboard drum (Ø ext.500 mm) |
| Length ≥ 150 m | 1 pce on cardboard drum (Ø 800 mm) |

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

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 |
|------------|----------|------------|----------|------|---------------------------|---------|----------|
| A.Burggraf | 03/05/13 | N.Bockisch | 03/05/13 | 400 | 16-0006 | C.Mayer | 15/09/16 |