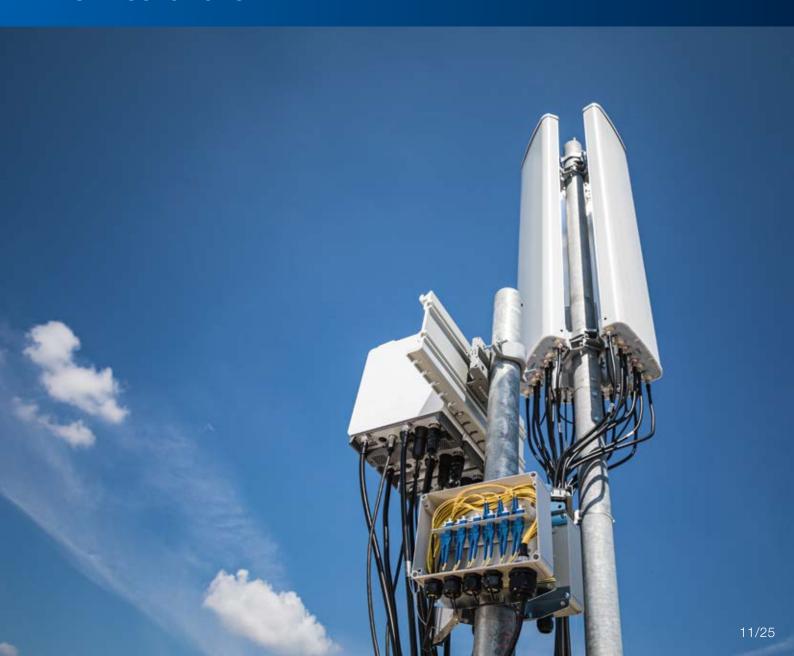
Rosenberger

Much More Than Technology

FTTA & PTTA

Next Generation Site Solutions for All Architectures

SITE SOLUTIONS





Rosenberger Site Solutions – Much More Than Technology

The Rosenberger Site Solutions Group designs, manufactures and provides solutions for the wireless infrastructure market. Our products and systems offer innovative and leading-edge designs with focus on high performance and quality. Having an efficient network implementation in mind, we focus on total site kitting, logistics and delivery time leading to reduced cost of ownership. Globally present, the Rosenberger Site Solutions Group offers extensive local support making Rosenberger Site Solutions a partner instead of just a supplier.



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Home of Innovation

A global network of Rosenberger research & development and production centers provides innovation, optimized cost structure and outstanding local customer service.



The Rosenberger headquarters located in Fridolfing in the southeast part of Bavaria, Germany

Rosenberger Worldwide

Rosenberger has more than 14,000 employees at the headquarters, manufacturing plants and sales offices in Europe, Asia as well as in North and South America, who are engaged in development, manufacture and sales of the products.

Rosenberger is always near you with its capable partners in the most important industrial countries when you need competent advice and trouble-free delivery on location.

In many countries, Rosenberger subsidiaries are active in the manufacture of connectors and cable assemblies. This facilitates flexibility on location and provides a national element that can help in reducing tax and customs charges.

With the establishment of a European assembly and logistics center in eastern Hungary together with the complete manufacturing plants in China and India, Rosenberger has, on the one hand, established a sustainable competitive advantage by international comparisons, and on the other hand, makes a useful contribution to the industrial development of emerging economies.

Rosenberger Global Network

Company Headquarters

Fridolfing, Germany

Europe

Austria: TimelkamDenmark: Lynge

 Germany: Augsburg, Laufen, Neuenbürg, Radeberg

 Hungary: Jászárokszállás, Jászberény, Nyírbátor, Taksony

Italy: Vimercate

Spain: Madrid

Sweden: Kista, Vallentuna

UK: Bradford



North America

Mexico: Apodaca

USA: Akron, Pennsauken, Lake Charles

South America

Brazil: Cacapava - São Paulo

Chile: Santiago



Africa

Tunesia

Asia

 China: Beijing, Dianshan Hu, Dongguan, Shanghai

India: Manesar, Goa, Pune

Japan: TokyoKorea: Suwon-City

Site Solutions Overview

Next Generation FIBER Solutions for all Architectures

PreCONNECT® FIBER Trunk

Boxless Solutions

One fiber trunk with up to 12 pairs of optical fibers. For the connection to the RRHs separate fiber jumpers are used. For upgrading systems with unique or proprietary fiber interfaces, only jumpers require modification or replacement.



One fiber trunk with up to 12 pairs of optical fibers. The fanouts of the fiber trunk are taken directly to the RRHs without the use of fiber optic jumpers.

Extend or adapt the fanouts with the Rosenberger FiberInLine connector for upgrades or swaps.



One fiber trunk with up to 24 pairs of optical fibers connected to a distribution box. For the connection to the RRHs separate fiber jumpers are used. For upgrading systems with unique or proprietary fiber interfaces, only jumpers require modification or replacement.



Modular fiber optic system with up to 48 pairs of fibers. Pre-assembled in factory and available with a multiple choice of outdoor fiber optic connectors for fast connection to RRHs using fiber optic jumpers cables.





Next Generation **POWER** Solutions for all Architectures

PreCONNECT® POWER Trunk Boxless Solutions

One power trunk with up to x-pairs of same sized cross-section wires, 6 mm², 10 mm² and 16 mm². For the connection to the RRHs separate power jumpers are used. For upgrading systems with unique or proprietary power interfaces, only jumpers require modification or replacement.

PreCONNECT® POWER Trunk Direct Solutions

One power trunk with up to x-pairs of same sized cross-section wires, $6~\text{mm}^2$, $10~\text{mm}^2$ or $16~\text{mm}^2$. Without any splicing the fanouts of the power trunk are taken directly to the RRHs without the use of power jumpers.

Extend or adapt the fanouts with the Rosenberger PowerInLine connector for upgrades or swaps.

PreCONNECT® POWER Trunk Box Solutions

One power trunk with up to x-pairs of same sized cross-section wires either 6 mm², 10 mm² or 16 mm² or a 2-wire power cable up to 35 mm² connected to a distribution box. For the connection to the RRHs separate power jumpers are used. For upgrading systems with unique or proprietary power interfaces, only jumpers require modification or replacement.

PreCONNECT® TMPS Tower Mounted Power System

Modular power system with up to 18 outdoor power connectors. Preassembled in factory and available with either 3, 6, 12 or 18 outdoor power connectors, DC or AC, for fast connection to RRHs using power jumpers.









PreCONNECT® TMHS Tower Mounted Hybrid System

Modular fiber optic and power system for data and DC power to support multiple RRHs. Pre-assembled in factory for fast connection to RRHs using fiber and power jumper cables. For upgrading systems with unique or proprietary fiber or power interfaces, only jumpers require modification or replacement.



PreCONNECT® HYBRID Boxless Solutions

One single hybrid cable for both data and DC power to support multiple RRHs. The slim cable design provides for a spliceless, continuous cable connection from the BBU and power supply to the RRHs. Separate fiber and power jumpers are used from the hybrid cable to the RRHs. For upgrading systems with unique or proprietary interfaces, only jumpers require modification or replacement.



PreCONNECT® HYBRID Box Solutions

One single hybrid cable or two individual fiber and power trunks for data and DC or AC power supply. One hybrid box solution can support multiple RRHs in various configurations. Separate or hybrid fiber and power jumpers are connected from the hybrid box to the RRHs.



PreCONNECT® 2FO Discrete Solutions

Ideal for single runs of fiber cable. Each RRH is directly connected to the BBU by one fiber cable.



PreCONNECT® POWER Discrete Solutions

Ideal for single runs of power cable. Each RRH is directly connected to the PSU by one power cable.



Rosenberger B2ca CABLES Compliant and certified according the CPR - EN 50575

Coaxial Cables

| Rosenberger No. | Description | Picture |
|-----------------|---|--|
| SL 012R FRNC | 1/2" Feeder, flexible, no halogen, flame retardant | |
| SL 012S FRNC | 1/2" Feeder, superflexible, no halogen, flame retardant | - Francisco |
| SL 078R FRNC | 7/8" Feeder, flexible, no halogen, flame retardant | The state of the s |
| SL 114R FRNC | 1 1/4" Feeder, flexible, no halogen, flame retardant | |
| SL 158R FRNC | 1 5/8" Feeder, flexible, no halogen, flame retardant | |
| SL 078B RK FRNC | 7/8" Radiating cable, no halogen, flame retardant | |
| SL 114B RK FRNC | 1 1/4" Radiating cable, no halogen, flame retardant | |
| SL 158B RK FRNC | 1 5/8" Radiating cable, no halogen, flame retardant | |

Coaxial Jumpers

| Rosenberger No. | Description | Picture |
|--------------------|--|---------|
| SLJ12RF-64M64M-xxx | Jumper 4.3-10 male - 4.3-10 male, 1/2" Flexible FRNC | |
| SLJ12SF-64M64M-xxx | Jumper 4.3-10 male - 4.3-10 male, 1/2" Super Flexible FRNC | 0 70 7 |

Other configurations available on request

FO Cables

| Rosenberger No. | Description | Picture |
|-----------------|--|----------------------|
| L98B-A0992-xxx | PreCONNECT® - 2 FO DISCRETE, SM, 5 mm, LCD_RFE-LCD, B2ca | |
| L98B-A1115-xxx | PreCONNECT® - 2 FO DISCRETE, SM, 5 mm, LCD_LCD, B2ca | |
| L98B-A0987-xxx | PreCONNECT® - 12 FO BOX, SM, 9.1 mm, 6xLCC-6xLCC, B2ca | |
| L98B-A1045-xxx | PreCONNECT® - 12 FO BOX, SM, 8.5 mm, 6xLCC-6xLCC, B2ca, steel armoured | |
| L98B-A0988-xxx | PreCONNECT® - 24 FO BOX, SM, 9.1 mm, 12xLCC-12xLCC, B2ca | facilities Committee |

Data Cable

| Rosenberger No. | Description | Picture |
|-----------------|---|---------|
| L99-A0122-xxx | Cat5e Cable Outdoor acc. to IEEE 802.3 bt (PoE++), B2ca | |
| L99-C342-xxx | Cat6A Cable Outdoor acc. to IEEE 802.3 bt (PoE++), B2ca | |

Other configurations available on request

2-Wire Power Cables

| Rosenberger No. | Description | Picture |
|-----------------------|--|---------|
| SL2C1.5MM2FRNC-S-BK-R | Power Cable 2 x 2,5 mm², Alu shielded, 6.9 mm | |
| SL2C2.5MM2FRNC-S-BK-R | Power Cable 2 x 2,5 mm², Alu shielded, 8.1 mm | |
| SL2C4MM2FRNC-S-BK-R | Power Cable 2 x 4 mm ² , Alu shielded, 8.5 mm | |
| SL2C6MM2FRNC-S-BK-R | Power Cable 2 x 6 mm ² , Alu shielded, 9.8 mm | |
| SL2C10MM2FRNC-S-BK-R | Power Cable 2 x 10 mm ² , Alu shielded, 11.6 mm | |
| SL2C16MM2FRNC-S-BK-R | Power Cable 2 x 16 mm ² , Alu shielded, 13.8 mm | |
| SL2C25MM2FRNC-S-BK-R | Power Cable 2 x 25 mm ² , Alu shielded, 17.2 mm | |
| SL2C35MM2FRNC-S-BK-R | Power Cable 2 x 35 mm ² , Alu shielded, 22.3 mm | |
| SL2C6MM2FRNC-S-BK-N | Power Cable 2 x 6 mm ² , Alu shielded, 9.8 mm | |
| SL2C10MM2FRNC-S-BK-N | Power Cable 2 x 10 mm ² , Alu shielded, 11.6 mm | |
| SL2C16MM2FRNC-S-BK-N | Power Cable 2 x 16 mm², Alu shielded, 13.8 mm | |
| SL2C25MM2FRNC-S-BK-N | Power Cable 2 x 25 mm ² , Alu shielded, 17.2 mm | |
| SL2C35MM2FRNC-S-BK-N | Power Cable 2 x 35 mm ² , Alu shielded, 22.3 mm | |

Double-Isolated Wires

| Rosenberger No. | Description | Picture |
|-----------------|--|---------|
| SLZ0035-10-RD | Power Cable 1 x 10 mm², double isolated, Red, 9,0 mm | |
| SLZ0035-16-RD | Power Cable 1 x 16 mm ² , double isolated, Red, 10,0 mm | |
| SLZ0035-25-RD | Power Cable 1 x 25 mm², double isolated, Red, 10,5 mm | |
| SLZ0035-35-RD | Power Cable 1 x 35 mm ² , double isolated, Red, 11,0 mm | |
| SLZ0035-50-RD | Power Cable 1 x 50 mm², double isolated, Red, 13,0 mm | |
| SLZ0035-10-WH | Power Cable 1 x 10 mm², double isolated, White, 9,0 mm | |
| SLZ0035-16-WH | Power Cable 1 x 16 mm², double isolated, White, 10,0 mm | |
| SLZ0035-25-WH | Power Cable 1 x 25 mm², double isolated, White, 10,5 mm | |
| SLZ0035-35-WH | Power Cable 1 x 35 mm², double isolated, White, 11,0 mm | |
| SLZ0035-50-WH | Power Cable 1 x 50 mm², double isolated, White, 13,0 mm | ~ |

PreCONNECT® BOXES

Next Generation BOX Solutions for all Architecture

The Rosenberger PreCONNECT® BOXES are available in standard and tailor-made configurations in volumes, low or high, to meet your specific requirements for reliable and easy-to-deploy connectivity boxes.

Designed and produced in-house at Rosenberger in Germany, our connectivity boxes provide the best workmanship and highest quality to ensure a long and smooth operation even in the most harsh environments.



- PreCONNECT® BOXES Fiber
- PreCONNECT® BOXES Power
- PreCONNECT® BOXES Hybrid







We Think Inside – and Outside the Box.



PreCONNECT® BOXES DC, AC and Fiber

| Rosenberger No. | Description |
|-----------------|---|
| SLPDU005-03 | PreCONNECT® PDU - 3 x Output, Multipower Cable, Shielded Output |
| SLPDU005-06 | PreCONNECT® PDU - 6 x Output, Multipower Cable, Shielded Output |
| SLPDU046-03 | PreCONNECT® PDU - 3 x Breaker B32A, 2-Wire Main Cable, Shielded Output |
| SLPDU046-06 | PreCONNECT® PDU - 6 x Breaker B32A, 2-Wire Main Cable, Shielded Output |
| SLPDU046-06-C32 | PreCONNECT® PDU - 6 x Breaker C32A, 2-Wire Main Cable, Shielded Output |
| SLPDU055-06 | PreCONNECT® PDU - 6 x Breaker 3 x B32A 3 x B40A, 2 x 1 x 35 mm² Individual Wires |
| SLPDU055-06-C32 | PreCONNECT® PDU - 6 x Breaker C32A, 2 x 1 x 35 mm² Individual Wires |
| SLPDU055-06-40 | PreCONNECT® PDU - 6 x Breaker 6 x B40A, 2 x 1 x 35 mm² Individual Wires |
| SLPDU058-00 | PreCONNECT® PDU - 3 x SPD Class I 50kA, 3 x 2-Wire shielded in, 3 x 2-Wire shielded out |
| SLPDU058-02 | PreCONNECT® PDU - 2 x SPD Class I 50kA, 2 x 2-Wire shielded in, 2 x 2-Wire shielded out |
| SLPDU058-01 | PreCONNECT® PDU - 1 x SPD Class I 50kA, 1 x 2-Wire shielded in, 1 x 2-Wire shielded out |
| SLPDU058-03 | PreCONNECT® PDU - 3 x SPD Class I 50kA, 3 x 2-Wire shielded in, 3 x 2-Wire shielded out |
| SLPDU059-00 | PreCONNECT® PDU - ALU outdoor connection box, 2-Wire shielded in, 2-Wire shielded out |
| SLPDU061-06-20 | PreCONNECT® PDU - 6 x Breaker B20A, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU061-06-32 | PreCONNECT® PDU - 6 x Breaker B32A, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU062-00 | PreCONNECT® PDU - SPD Class I 50kA, 2-Wire Main Cable, 5-Wire Shielded Output |
| SLPDU023-00 | PreCONNECT® PDU - 2 x Breaker B50A, SPD Class I 25kA, 2 x 2-Wire Main Cable, Shielded Output |
| SLPDU023-01 | PreCONNECT® PDU - SPD Class I 25kA, 2 x 2-Wire Main Cable, Shielded Output |
| SLPDU022-03-06 | PreCONNECT® PDU - 3 x Breaker B6A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU022-03-20 | PreCONNECT® PDU - 3 x Breaker B20A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU022-03-32 | PreCONNECT® PDU - 3 x Breaker B32A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU022-06 | PreCONNECT® PDU - 6 x Breaker B20A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU022-06-32 | PreCONNECT® PDU - 6 x Breaker B32A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, Shielded Output |
| SLPDU022-G6 | PreCONNECT® PDU - 6 x Breaker B20A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, plus grounding |
| | terminals, Shielded Output |
| SLPDU022-G6-32 | PreCONNECT® PDU - 6 x Breaker B32A, SPD Class I 25kA, 2 x 2-Wire Shielded Main Cable, plus grounding terminals, Shielded Output |
| SLPDU052-00 | PreCONNECT® PDU - SPD Class I 25kA, 2-Wire Shielded Main Cable, 2-Wire Shielded Cable Output |
| SLPDU063-03 | PreCONNECT® PDU - 3 x Breaker B32A, 2-Wire Shielded Input. 3 x 2-Wire Shielded Output |
| SLPDU063-03-06 | PreCONNECT® PDU - 3 x Breaker B6A, 2-Wire Shielded Input.Shielded Output |
| SLPDU064-03 | PreCONNECT® PDU - 3 x 2-Wire Shielded Input. 3 x 2-Wire Shielded Output |
| SLPDU025-18 | PreCONNECT® PDU - 19" 3 HU, 18 x Breaker C20A, SPD Class I 12,5kA Varistor |
| SLPDU048-20-B16 | PreCONNECT® PDU - 19" 3 HU, 20 x Breaker B16A |
| SLHDU048-06 | PreCONNECT® HDU - 12 x LCD, 6 x Breaker C20A, 2-Wire Main Cable, Shielded Output |
| SLHDU055-04 | PreCONNECT® HDU - 4 x LCD, 4 x Breaker B4A, 2-Wire Shielded Main Cable, Shielded Output |
| SLHDU055-06 | PreCONNECT® HDU - 6 x LCD, 6 x Breaker B4A, 2-Wire Shielded Main Cable, Shielded Output |
| SLHDU055-08 | PreCONNECT® HDU - 8 x LCD, 8 x Breaker B4A, 2-Wire Shielded Main Cable, Shielded Output |
| SLHDU056-12-00 | PreCONNECT® HDU - 12 x LCD, 2 x 2-Wire Main Cable (2 x up to 2 x 35 mm²) |
| SLHDU056-12-2+4 | PreCONNECT® HDU - 12 x LCD, 6 x Breaker C32A 2 + 4, 2 x 2-Wire Main Cable (2 x up to 2 x 35 mm²) |
| SLHDU056-12-3+3 | PreCONNECT® HDU - 12 x LCD, 6 x Breaker C32A 3 + 3, 2 x 2-Wire Main Cable (2 x up to 2 x 35 mm²) |
| SLFDU004-06 | PreCONNECT® FDU - 6 x LCD, IP66 |
| SLFDU005-12 | PreCONNECT® FDU - 12 x LCD, IP66 |
| SLFDU008-18 | PreCONNECT® FDU - 18 x LCD, IP66 |
| SLFDU021-24 | PreCONNECT® FDU - 24 x LCD, IP66 |
| SLPDU073-00 | PreCONNECT®PDU AC – 3 x Breaker B32A + 4 x 35A + 3 x B20A, SPD, Phase control, outdoor |
| SLPDU069-00 | PreCONNECT® PDU AC - 6 x B25A, SPD, Phase control, outdoor |
| SLPDU069-01 | PreCONNECT® PDU AC - 6 x B25A, SPD, Phase control, outdoor, 63A socket for Emergency Power feed |
| SLPDU069-07 | PreCONNECT® PDU AC - 9 x B25A, SPD, Phase control, outdoor |
| SLPDU092-03-16 | PreCONNECT® PDU AC - 3 x B16A, SPD for up to 3 Rectifiers |

19" 1 HU DC Power Distribution Unit (PDU)

Key Features

Flexible Circuit Configuration

Supports up to 18 circuit breakers, adaptable to your specific power distribution needs.

Scalable & On-Site Expandable

Easily add additional or change breakers on-site for maximum flexibility and future-proof expansion.

High Power Capacity

Each circuit supports a maximum current of up to 250 A, ensuring reliable performance in line with your requirements.

Customizable Circuit Design

Available with one, two, or three independent circuits, providing tailored solutions for all application requirements.

Integrated Surge Protection (Optional)

Available with or without Surge Protection Devices (SPD) featuring varistor-based Class 2, 5kA protection for enhanced protection.

Secure & Protected Installation

Dummy covers safeguard open slots ensuring a safe setup.

Enhanced Dust Protection

Equipped with a brush at the rear cable entry to prevent dust ingress and ensure long-term reliability.





Circuit 1 Circuit 2 Circuit 3

19" 1 HU DC Power Distribution Unit

Portfolio

| No. of Circuits | Circuit | No. of Circuit Breakers | SPD | Max. Current | Reference (Rosenberger No.) | Product |
|-----------------|--|---|---|--------------------|--------------------------------|---------------------|
| 1 | Single circuit | 18 breakers | No SPD | 250 A / circuit | SLPDU100-04 | |
| | | | Unit with SPD available on request | | | Circuit 1 |
| 2 | Two independent circuits (primary and secondary) | Circuit one: Up to 12 circuit breakers Circuit two: Up to 6 circuit breakers | No SPD | 250 A / circuit | SLPDU100-00 | Circuit 1 Circuit 2 |
| 2 | Two independent circuits (primary and secondary) | Circuit one: Up to 12 circuit breakers Circuit two: Up to 6 circuit breakers | Varistor type, class 2, 5kA SPDs protect each line | 125 A / circuit | SLPDU100-01 | Circuit 1 Circuit 2 |
| 3 | Three independent circuits | Each circuit: Up to 6 circuit breakers | No SPD | 250 A / circuit | SLPDU100-03 | |

Note: Breaker adds separately acc. to your needs (see page 8)

More configurations on request

19" 1 HU Hybrid Distribution Unit (HDU)

Key Features

Flexible Circuit Configuration

Supports up to 6 circuit breakers, adaptable to your specific power distribution requirements.

Efficient Fiber Management

Supports up to 12 fiber connections, ensuring seamless integration of power and data transmission.

Scalable & On-Site Expandable

Easily add additional or change breakers on-site for maximum flexibility and future-proof expansion.

High Power Capacity

Each circuit supports a maximum current of up to 250 A, ensuring reliable performance in demanding environments.

Integrated Surge Protection (Optional)

Available with or without Surge Protection Devices (SPD) featuring varistor-based Class 2, 5kA protection for enhanced protection.

Secure & Protected Installation

Dummy covers safeguard open slots ensuring a safe setup.

Enhanced Dust Protection

Equipped with a brush at the rear cable entry to prevent dust ingress and ensure long-term reliability.





19" 1 HU Hybrid Distribution Unit

Portfolio

| No. of Circuits | No. of Circuit Breakers | SPD | Max. Current | No. of Fibers | No. of Keystones | Rosenberger No. | Product |
|-----------------|----------------------------|-----------------------------|-----------------|-------------------------------|---------------------|------------------|---|
| 1 | Up to 6 breakers | No SPD | 250 A / circuit | Up to 12 fibers (6 x LCD) | - | SLHDU100-06-00 | () : - : - : - : - : - : - : - : - : - : |
| 1 | Up to 6 breakers | Varistor type, class 2, 5kA | 125 A | Up to 12 fibers (6 x LCD) | - | SLHDU100-06-03 | × 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 1 | Up to 6 breakers | Varistor type, class 2, 5kA | 125 A | 12 fibers (3 x LC Quad) | 4 | SLHDU100-06-02-A | SALES - AND AND IN |

Flexible configuration, please contact us to find the best solution for your requirements

- Up to 6 breakers (see page 8)
- Up to 7 Keystones (for example RJ45)
- Up to 12 Fibers (6 x LCDor 3 x LC Quad or 7 x E2000)



Indoor Rectifier

A rectifier system – for telecom applications – converts 230/400V (AC) into ~ -54V (DC). With the goal of continuously reducing total operating costs, Rosenberger rectifiers, combined with advanced control and monitoring functions, contribute to lowering both investment and operating costs. Our rectifier systems are characterized by high power density and a compact footprint.

Rosenberger rectifiers support telecommunications infrastructure in mobile networks and is ideal for use in network edge applications , RAN, distributed telecommunications networks, and locations with high data demand.

- Rack-mounted, 3 HU, 4HU or 5 HU, up to 9 Rectifier Moduleswith up to 36kW DC output power
- Compact: AC Input, DC Output, Rectifier Modules, Controller
- Easy Maintenance: Hot Plug Rectifier Module, Front Access Maintenance System
- Advanced Battery Management
- DC Output Breakers, standard and intelligent







| Rosenberger No. | Description |
|-----------------|---|
| 98K216-540-000 | 19" Rack Mounted Rectifier Power Unit, 5 HU |
| 98K216-540-005 | 19" Rack Mounted Rectifier Power Unit, 4 HU |
| 98K216-540-004 | 19" Rack Mounted Rectifier Power Unit, 3 HU |

Outdoor Rectifier

With the deployment of LTE, 5G and upcoming 6G, the power requirement on site is increasing constantly.

Long DC power cable runs result in additional power losses (commonly up to 200 Wh x 24 hours / 7 days).

To reduce the losses and ease the installation due to smaller cross sections and less weight, AC power cables (230 / 400 V) can be deployed (directly from the technical room to the radio location).

Rosenberger Outdoor Rectifiers can be installed close to the radios, and supply the needed DC power to the radios on tower top in an efficient way.

- For RAN installations where the Radios are based far away from the technical room
- Use of AC-power for long cable runs allow reduced cross sections on the copper cables
- High demand of DC power for the radios
- AC/DC Conversion: Total Output Power of 3kW
- Monitoring: RS485, CAN Communication Serial Port and Dry Contact IF
- Battery Management Function with Battery IF
- 50 Ah Battery
- Rectifier devices with batteries connected parallel for back up

Battery Pack for Rectifier Power Module 50Ah 7 51.2V



Outdoor Rectifier Module





Pole Mounting Bracket



| Rosenberger No. | Description |
|-------------------|---|
| 98K216-518-3000-4 | Battery Pack for Ractifier Power Module 50 AH / 51.2V |
| 98K216-51 8-3000 | Outdoor Rectifier Module |
| SLZ0070-30 | Pole Mountin Bracket |

Circuit Breakers and Accessories

Factorypre-installation as per your requirements

Circuit Breakers

| Rosenberger No. | Description |
|-------------------|--------------|
| NDB6AZ-63H/6/1PN | 6 A, 1 pole |
| NDB6AZ-63H/10/1PN | 10 A, 1 pole |
| NDB6AZ-63H/16/1PN | 16 A, 1 pole |
| NDB6AZ-63H/20/1PN | 20 A, 1 pole |
| NDB6AZ-63H/25/1PN | 25 A, 1 pole |
| NDB6AZ-63H/32/1PN | 32 A, 1 pole |
| NDB6AZ-63H/40/1PN | 40 A, 1 pole |
| NDB6AZ-63H/50/1PN | 50 A, 1 pole |
| NDB6AZ-63H/63/1PN | 63 A, 1 pole |





Dummy Cover

| Rosenberger No. | Description |
|-----------------|-------------|
| BSB-SLPDU100 | Dummy cover |



Cable Management

| Rosenberger No. | Description |
|-----------------|-----------------------|
| SLR010-00 | 19" cable feedthrough |
| | with brush |



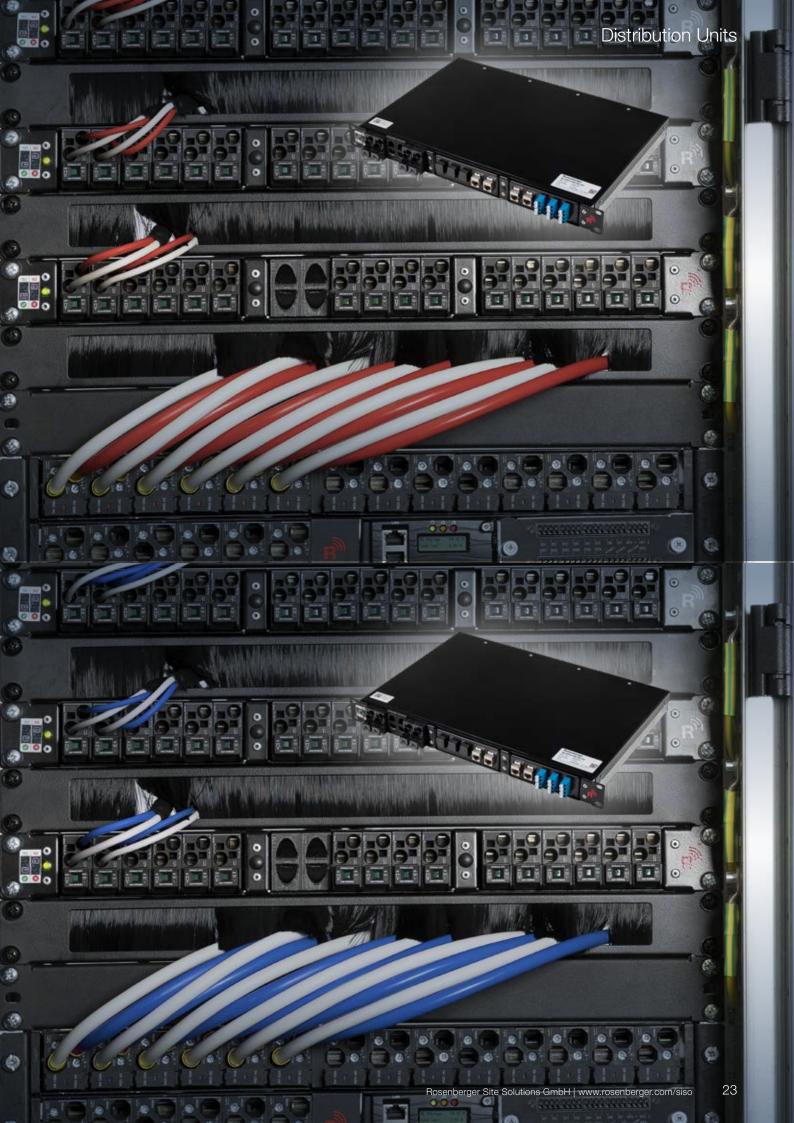
Finger Protection Cover

| Rosenberger No. | Description |
|-----------------|-------------------------|
| BSB-SLPDU100 | Finger protection cover |
| | at the rear of the unit |



Assembly Instruction





PreCONNECT® FIBER Trunk Box Solutions

One fiber trunk with up to 24 pairs of optical fibers connected to a distribution box. For the connection to the RRHs separate fiber jumpers are used. For upgrading systems with unique or proprietary fiber interfaces, only jumpers require modification or replacement.

Features and Benefits

- Multi-channel cable for harsh outdoor environment
- Single fiber trunk with 3 to 24 pairs
- LC connectors on both sides
- Operating temperature range -40 °C to +85 °C
- High UV resistance
- High crush resistance
- Factory assembled fiber optic connectors
- Factory tested Insertion Loss (IL) including test report
- Connectors and fanouts protected with installation tube





PreCONNECT® FIBER Distribution Box

Designed for tower as well as wall mounting, Rosenberger Fiber Distribution Boxes are available in various configurations to accommodate 3 to 24 pairs of fiber optic.

Features and Benefits

- 3 to 24 LC duplex adaptors
- Ventilation seal to avoid moisture
- Mast and wall mount fixation
- Easy, efficient and safe installation
- IP67



PreCONNECT® FIBER Distribution Boxes

| Rosenberger No. | | | | | | |
|-------------------------------|------------------------------|-------|--------|----------|-----------------------------------|------------------|
| Single mode G.657A - 9/125 | *Multi mode OM 3 - 50/125 | Pairs | Fibers | Diameter | Connector Type | Distribution Box |
| L98B-A0757-xxx | L98D-472-xxx | 6 | 12 | 7.3 mm | 6 x LC-Compact > 6 x LC-Compact | SLFDU004-06 |
| L98B-022-xxx | L98D-471-xxx | 12 | 24 | 7.3 mm | 12 x LC-Compact > 12 x LC-Compact | SLFDU005-12 |
| L98B-069-xxx | L98D-479-xxx | 18 | 36 | 10 mm | 18 x LC-Compact > 18 x LC-Compact | SLFDU008-w18 |
| L98B-235-xxx | L98D-480-xxx | 24 | 48 | 10 mm | 24 x LC-Compact > 24 x LC-Compact | SLFDU021-24 |

Further configurations available on request xxx = length between cable *OM 4 available on request

For related jumper cable, please go to page 38

PreCONNECT® FIBER Trunk Boxless Solutions

The Fiber Trunk Boxless Solution utilizes one fiber trunk with up to 12 pairs of optical fiber.

For connection to the RRHs separate fiber jumpers are used. For upgrading systems with unique or proprietary fiber interfaces, only jumpers require modification or replacement.

Features and Benefits

- Multi-channel cable for harsh outdoor environment
- Single fiber trunk with up to 12 pairs
- Rosenberger Duplex Connector (RDC) at tower top;
 LC connectors at tower bottom
- Operating temperature range -40 °C to +85 °C
- High UV resistance
- High crush resistance
- Factory assembled fiber optic connectors
- Factory tested Insertion Loss (IL) with test report
- Connectors and fanouts protected



PreCONNECT® FIBER Trunk Boxless Solutions

| Rosenberger No. | | | | | |
|-------------------------------|------------------------------|-------|--------|----------|-----------------|
| Single mode G.657A - 9/125 | *Multi mode OM 3 - 50/125 | Pairs | Fibers | Diameter | Connector Type |
| L98B-128-xxx | L98D-448-xxx | 6 | 12 | 7.3 mm | RDC > LC Duplex |
| L98B-A0744-xxx | L98D-449-xxx | 12 | 24 | 7.3 mm | RDC > LC Duplex |
| On request | On request | 18 | 36 | 10 mm | RDC > LC Duplex |
| On request | On request | 24 | 48 | 10 mm | RDC > LC Duplex |

Further configurations available on request xxx = length between cable dividers in mm *OM 4 available on request

For related jumper cable, please go to page 38



Fiber Trunk with RDC and LC connectors

PreCONNECT® FIBER Trunk Direct Solutions

One fiber trunk with up to 12 pairs of optical fibers. The fanouts of the fiber trunk are taken directly to the RRHs without the use of fiber optic jumpers.

Extend or adapt the fanouts with the Rosenberger FiberInLine connector for upgrades or swaps.

Features and Benefits

- Multi-channel cable for harsh outdoor environment
- Single fiber trunk with up 12 pairs
- LC connectors at tower top and bottom
- All commonly used IP seals to protect fiber optic interfaces
- Operating temperature range -40 °C to +85 °C
- High UV resistance
- High crush resistance
- Factory assembled fiber optic connectors
- Factory tested Insertion Loss (IL) with test report
- Connectors and fanouts protected with installation tube







PreCONNECT® FIBER Trunk Direct

| I ICOCININEO | I IIDLI IIUIIN | Dilect | | | |
|-------------------------------|------------------------------|--------|--------|----------|---|
| Rosenberger No. | | | | | |
| Single mode G.657A - 9/125 | Multi mode *OM 3 - 50/125 | Pairs | Fibers | Diameter | Connector Type |
| L98B-A0745-xxx | | 6 | 12 | 7.3 mm | LCC > LCC Duplex with RFE for Ericsson |
| L98B-A0746-xxx | | 12 | 24 | 7.3 mm | LCC > LCC Duplex with RFE for Ericsson |
| L98B-A0909-xxx | L98D-450-xxx | 6 | 12 | 7.3 mm | LCC > LCC Duplex with IP-Seal for Nokia |
| | L98D-451-xxx | 12 | 24 | 7.3 mm | LCC > LCC Duplex with IP-Seal for Nokia |
| L98B-A0783-xxx | | 6 | 12 | 7.3 mm | LCC > LCD Duplex for Huawei |
| L98B-A0877-xxx | | 12 | 24 | 7.3 mm | LCC > LCD Duplex for Huawei |
| | | | | | |

Further configurations available on request xxx = length between cable dividers in mm *OM 4 available on request

PreCONNECT® TMFS Tower Mounted Fiber System

The Rosenberger Tower Mounted Fiber System offers a major advantage in terms of flexibility and installability. The fiber trunk is terminated in a fiber housing ensuring full individual fiber protection and minimum windload. Easy to install on either towers or rooftops, the TMFS one-piece design features different connector options to meet your requirements.

Features and Benefits

- Distribution unit with factory mounted multifiber cable
- Modular design with up to 48 fiber pairs
- Connector options for jumper connection:
 LC, MTP®/MPO, RDC, RQC, Q-RMC
- Operating temperature range -40 °C to +85 °C
- IP67
- High UV resistance
- High crush resistance
- Factory assembled FO connectors
- Factory tested Insertion Loss (IL) including test report









PreCONNECT® TMFS (12 x LCD)



PreCONNECT® TMFS (24 x RDC)

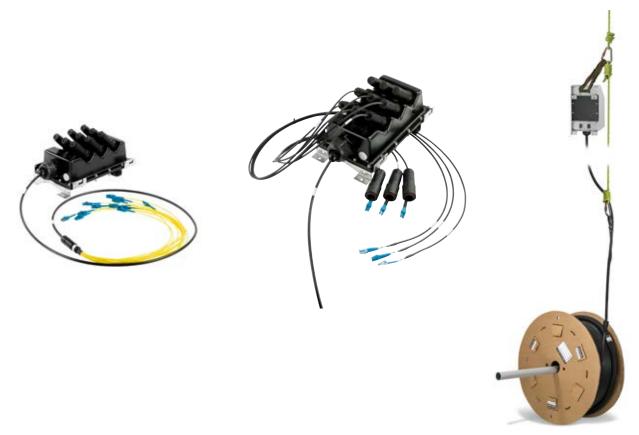


PreCONNECT® TMFS Tower Mounted Fiber System

| Rosenberger No. | | | | | |
|-------------------------------|----------------------------------|-------|--------|----------|------------------------------|
| Single mode G.657A - 9/125 | Multi mode OM 3/OM 4 - 50/125 | Pairs | Fibers | Diameter | Connector Type |
| L98B-A0652-xxx | On request | 6 | 12 | 7.3 mm | 6 x LCD Boot |
| L98B-A0653-xxx | On request | 6 | 12 | 7.3 mm | 6 x RDCf |
| L98B-A0654-xxx | On request | 12 | 24 | 7.3 mm | 12 x LCD Boot |
| L98B-A0655-xxx | On request | 12 | 24 | 7.3 mm | 12 x RDCf |
| L98B-A0656-xxx | On request | 18 | 36 | 10 mm | 18 x LCD Boot |
| L98B-A0676-xxx | On request | 12 | 24 | 10 mm | 3 x MTP®/MPO + 12 x LCD Boot |

Further configurations available on request xxx = length between cable dividers in mm

For related jumper cable, please go to page 38







PreCONNECT® POWER Direct or Box Solutions

Features and Benefits

- Conformity with EU regulations
- CPR-rating B2ca
- Small dimensions
- Less weight
- Small bending radius
- Less windload
- Easy stripping and handling
- Time saving
- One cable clamp for all cable dimensions



| Cross Section [mm²] | | 6 | | 10 | | | 16 | | | 25 | | 35 |
|-----------------------------|------|-------|------|-------|---------|------|-------|---------|------|-------|---------|------|
| Cable Type | SL2C | NYCY | SL2C | NYCWY | H07RN-F | SL2C | NYCWY | H07RN-F | SL2C | NYCWY | H07RN-F | SL2C |
| Wire Class | 5 | 1 | 5 | 1 | 5 | 5 | 1 | 5 | 5 | 1 | 5 | 5 |
| Weight [kg/km] | 161 | 430 | 237 | 612 | 538 | 346 | 840 | 744 | 731 | 1299 | 1074 | 1061 |
| Diameter [mm] | 9.4 | 17.0 | 10.7 | 19.4 | 17.7 | 12.5 | 20.4 | 20.2 | 16.4 | 24.4 | 24.3 | 19.8 |
| Min. Bending Radius [mm] | 47.0 | 204.0 | 53.5 | 232.8 | 54 | 62.5 | 244.8 | 78.6 | 82 | 292.8 | 97.2 | 100 |

Comparative table: Rosenberger SL2CXX compared to other power cable types





One cable clamp size for all cable dimensions (6 mm² up to 25 mm²)

| Rosenberger No. 6 wire | SL6C4FRNC-S-BK | SL6C6FRNC-S-BK | SL6C10FRNC-S-BK | SL6C16FRNC-S-BK |
|-------------------------------|-------------------|-------------------|--------------------|-----------------|
| Weight | 303 kg/km | 500 kg/km | 820 kg/km | 1200 kg/km |
| Operating voltage | 300 V | 300 V | 300 V | 300 V |
| 20 °C conductor DC resistance | 5.1 Ω/km | 3.3 Ω/km | 1.91 Ω/km | 1.21 Ω/km |
| Conductor size | 4 mm ² | 6 mm ² | 10 mm ² | 16 mm² |
| Jacket diameter | Ø 12.5 mm | Ø 15.8 mm | Ø 19.5 mm | Ø 22.8 mm |

| Rosenberger No. 12 wire | SL12C4FRNC-S-BK | SL12C6FRNC-S-BK | SL12C10FRNC-S-BK | SL12C16FRNC-S-BK |
|-------------------------------|-------------------|-------------------|------------------|------------------|
| Weight | 582 kg/km | 930 kg/km | 1430 kg/km | 2130 kg/km |
| Operating voltage | 300 V | 300 V | 300 V | 300 V |
| 20 °C conductor DC resistance | 5.1 Ω/km | 3.3 Ω/km | 1.91 Ω/km | 1.21 Ω/km |
| Conductor size | 4 mm ² | 6 mm ² | 10 mm² | 16 mm² |
| Jacket diameter | Ø 17.5 mm | Ø 21.1 mm | Ø 24.8 mm | Ø 28 mm |

Further configurations available on request xxx = length in mm

PreCONNECT® POWER Trunk Boxless Solutions

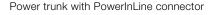
The Rosenberger Power Trunk design provides a slim and easy to install neutral point of interface. Each power cable can be connected either directly to a RRH or to power jumpers utilizing the Rosenberger PowerInLine connector. Eliminating potential issues with windload and rental fees, the PowerInLine connector provides the same flexibility as that of a power distribution box.

Features and Benefits

- Power Trunk for 3 or 6 RRHs
- Easy installation
- Feasible for box and boxless installation
- Available in 6 mm², 10 mm², 16 mm²
- Shielded with aluminum foil
- Low smoke zero halogen
- Rosenberger PowerlnLine connector for flexible installation
- 360° EMI shielding
- Suitable for shielded 2-wire power cables and coaxial power cables from 1 10 mm²











Power Feeder Trunk Boxless

| Rosenberger No. | Description |
|-----------------|--|
| SL3x6FRNC-S-BK | Multipower cable 3 x 2 x 6 mm ² shielded |
| SL6x6FRNC-S-BK | Multipower cable 6 x 2 x 6 mm ² shielded |
| SL3x10FRNC-S-BK | Multipower cable 3 x 2 x10 mm ² shielded |
| SL6x10FRNC-S-BK | Multipower cable 6 x 2 x10 mm ² shielded |
| SL3x16FRNC-S-BK | Multipower cable 3 x 2 x 16 mm ² shielded |
| SL6x16FRNC-S-BK | Multipower cable 6 x 2 x 16 mm ² shielded |
| SD007-25-xxx | 25 mm² power cable 2-wire shielded with 3 x power connector on top end |

For power jumpers please refer to page 38

PreCONNECT® PowerInLine Connector

| Rosenberger No. | Description |
|------------------|---|
| 99C084-000N1 | PowerInLine connector 1-10 mm ² |
| 7F2RS105B-0M16T1 | Power connector for TMPS and various RRHs, 3 wire 55A/60VDC |
| 7F2RS106B-0M16T1 | Power connector for TMPS and various RRHs, 1 wire 55A/60VDC |
| SLZ0113-00 | PowerInLine connector 6-25 mm ² , 3pin |

Further configurations available on request

PreCONNECT® POWER Trunk Direct Solutions

One power trunk with up to x-pairs of same sized cross-section wires either 6 mm², 10 mm² or 16 mm². The fanouts of the power trunk are taken directly to the RRHs without the use of power jumpers – no splicing. Extend or adapt the fanouts with the Rosenberger PowerInLine connector for upgrades or swaps.

Features and Benefits

- Power Trunk for 3 or 6 RRHs
- Factory assembled
- Power handling up to 1500 W per port dependent on cross-section and length
- Operating temperature range -40 °C to +85 °C
- IP67
- High UV resistance
- High crush resistance
- Easy extention, upgrade or swap with the Rosenberger PowerInLine connector







Trunk Direct (Coaxpower)

Direct Power System

| Bliodt i owor cyclom | |
|----------------------|---|
| Rosenberger No. | No. of Ports |
| SLFP0606-5.0-xxx | 6 x 2 x 6 mm² for 6 RRHs, Fanout 5 m - Coaxpower |
| SLFP0610-5.0-xxx | 6 x 2 x 10 mm ² for 6 RRHs, Fanout 5 m - Coaxpower |
| SLFP20306-5.0-xxx-R | 3 x 2 x 6 mm² for RRHs, Fanout 5 m - 2 wire shielded elements, red&white |
| SLFP20310-5.0-xxx-R | 3 x 2 x 10 mm² for RRHs, Fanout 5 m - 2 wire shielded elements, red&white |
| SLFP20606-5.0-xxx-R | 6 x 2 x 6 mm² for RRHs, Fanout 5 m - 2 wire shielded elements, red&white |
| SLFP20610-5.0-xxx-R | 6 x 2 x 10 mm ² for RRHs, Fanout 5 m - 2 wire shielded elements, red&white |

Further configurations available on request xxx = length in mm

PreCONNECT® TMPS Tower Mounted Power System

The Rosenberger Tower Mounted Power System offers a major advantage in terms of flexibility and installability. The power trunk is prewired and terminated in a housing thus ensuring individual power cable protection and minimum windload. Easy to install on either towers or rooftops, the TMPS one-piece design features the Rosenberger robust outdoor connectors for direct connection to power jumpers.

Features and Benefits

- Factory assembled
- Power handling up to 1500 W per port dependent on cross-section and length
- Operating temperature range -40 °C to +85 °C
- Distribution unit with up to 18 outdoor power connectors, DC or AC
- IP67
- High UV resistance
- High crush resistance









Tower Mounted Power System

Tower Mounted Power System

| | ionor modernos of ottorior | | | |
|-----------------|---------------------------------|--|--|--|
| Rosenberger No. | No. of Ports | | | |
| L99-P085-xxx | 6 x 6 mm ² (3 RRHs) | | | |
| L99-P084-xxx | 12 x 6 mm ² (6 RRHs) | | | |
| L99-P080-xxx | 18 x 4 mm ² (9 RRHs) | | | |

Further configurations available on request xxx = length in mm

For power and fiber jumper feeder please refer to page 38



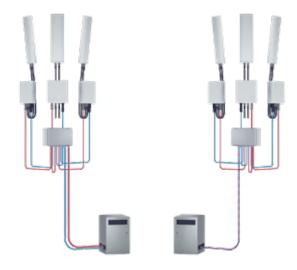
PreCONNECT® HYBRID Box Solutions

The Rosenberger Hybrid Box Solution provides an option for both data and power supply. One Hybrid Box Solution can support multiple RRHs in various configurations. The hybrid cable (or alternatively two individual fiber and power trunks) are terminated in a Hybrid Distribution Box.

Separate fiber and power jumpers are used for the connection to RRHs.

Features and Benefits

- Fiber and power distribution and management
- OVP integrated as an option
- Pre-connectorized and wired
- IP66
- Wall or mast mounting
- Easy-to-install mounting brackets
- High UV resistance
- High crush resistance







Hybrid distribution box with and without OVP

Hybrid Distribution Box

| Rosenberger No. | No. of Ports |
|-----------------|--|
| SLHDU006-xxx | Hybrid box with surge protection for 6 RRHs |
| SLHDU054-xx | Hybrid box without surge protection for 6 RRHs |
| SLHDU057-xx | Hybrid box without surge protection |
| SLHDU055-xx | Hybrid box for separate power and fiber feeder cable with SPD, xx breakers, 12 fibers |
| SLHDU056-xx-xx | Hybrid box for separate power and fiber feeder cable without SPD, xx breakers, 24 fibers |

Further configurations available on request

PreCONNECT® HYBRID Boxless Solutions

The Rosenberger Hybrid Boxless Solution provides a single cable option for both data and DC power. One hybrid cable supports multiple RRHs. The slim and flexible cable design reduces overall network implementation costs. The unique design allows a spliceless, continuous cable connection from BBU to RRH. Fiber and power jumpers are used from the hybrid trunk to the RRHs.

Features and Benefits

- Easy and fast installation
- Small bending radius and outer cable diameter
- Single hybrid trunk with multiple fiber and coaxial power cables
- Sturdy slim profile canister dividing fiber and power cables
- No splice connection inside the canister
- No distribution box required
- RDC outdoor connectors for mounting of jumpers towards RRHs and LC connectors towards BBU
- IP67
- High UV resistance
- High crush resistance
- Factory assembled fiber optic connectors
- Hybrid cable shielded with aluminum foil
- Factory assembled fiber optic connectors
- Factory tested Insertion Loss (IL) including test report
- Connectors and fanouts protected with installation tube





Hybrid Boxless

Hybrid Boxless

| Rosenberger No. | | | | | |
|-------------------------------|------------------------------|--|--------|----------|-----------------|
| Single mode G.657A - 9/125 | *Multi mode OM 2 - 50/125 | Pairs | Fibers | Diameter | Connector Type |
| L98B-237-xxx | L98C-086-xxx | 6 x RDC - 6 x LCD + 3 x 6 mm² Coax | 12 | 5/8" | RDC > LC Duplex |
| L98B-201-xxx | | 3 x RDC - 3 x LCD + 3 x 10 mm ² Coax | 12 | 7/8" | RDC > LC Duplex |

Further configurations available on request xxx = length in mm *OM 4 available on request

For jumper cables please refer to page 38

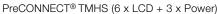
PreCONNECT® TMHS Tower Mounted Hybrid System

Rosenberger Tower Mounted Hybrid System offers a major advantage in terms of flexibility and installability. The hybrid trunk is prewired and terminated in a housing thus ensuring individual cable protection and minimum windload. Easy to install on either towers or rooftops, the TMHS one-piece design features the Rosenberger robust outdoor connectors for direct connection to power and fiber jumpers.

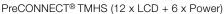
Features and Benefits

- Factory assembled
- Modular design
- Outdoor power connectors
- Connector options for jumper connection: LC, MTP®/MPO, RDC, RQC, Q-RMC
- Power handling up to 1500 W per port
- Operating temperature range -40 °C to +85 °C
- IP67
- High UV resistance
- High crush resistance











| Rosenberger No. | | | | | |
|-----------------|--------------|--|--------|-------|----------|
| Single mode | | Description | Fibers | Power | Diameter |
| L98B-A0657-xxx | | 6 x LCD - 6 x LCD + 3 x 6 mm ² | 12 | 3 | 23 mm |
| L98B-A0658-xxx | | 6 x RDC - 6 x LCD + 3 x 6 mm ² | 12 | 3 | 23 mm |
| L98B-A0689-xxx | | 6 x RDC - 6 x LCD + 6 x 6 mm ² | 12 | 6 | 26 mm |
| L98B-A0755-xxx | | 6 x LCD - 6 x LCD + 6 x 6 mm ² | 12 | 6 | 26 mm |
| L98B-A0758-xxx | L98D-463-xxx | 6 x LCD - 6 x LCD + 6 x 10 mm ² | 12 | 6 | 28 mm |
| L98B-A0759-xxx | | 6 x RDC - 6 x LCD + 6 x 10 mm ² | 12 | 6 | 28 mm |
| L98B-A0338-xxx | | 12 x RDC - 12 x LCC + 4 x 230V AC connection | 24 | 4 | 19.7 mm |

Further configurations available on request xxx = length in mm

*OM 4 available on request

PreCONNECT® 2FO Discrete Solutions

Discrete Fiber Solutions are ideal for harsh outdoor environments.

Features and Benefits

- Operating temperature range -40 °C to +85 °C
- High UV resistance
- High crush resistance
- Both sides factory assembled with fiber optic connectors
- Single data channel in one cable
- Standard light propagation "channelwise crossed" (pairwise flipped)





Fiber feeder

Fiber feeder with OCTIS

Rosenberger fiber enclosure (RFE)

Discrete Cabling Solution Fiber Feeder Standard

| Single Mode | Multimode OM3 | Multimode OM4 | RFE additionally needed | Connector Type | OEM |
|----------------|---------------|---------------|-------------------------|-----------------------------------|----------|
| L98B-090-xxx | | | | LCD - LCC with RFE | Ericsson |
| L98B-A0992-xxx | | | | LCD - LCC with RFE, B2ca | Ericsson |
| 98Z111-S04 | | | | RFE - Rosenberger Fiber Enclosure | Ericsson |
| 98F29-178-48 | | | | RXE - Rosenberger Fiber Enclosure | Ericsson |
| L98B-A1030-xxx | | | | LCD - LCC with AOPC | Nokia |
| L98B-A0859-xxx | L98D-227-xxx | | | LCD - LCC with IP-Seal | Nokia |
| L98B-A1015-xxx | | | | LCD - LCC/OCTIS | Nokia |
| L98B-003-xxx | L98C-023-xxx | | | LCD - LCD | Huawei |
| | L98D-255-xxx | L98E-151-xxx | | LCC - LCC with OCTIS | NEC |
| L98B-A0641-xxx | L98D-256-xxx | L98E-152-xxx | | LCC - LCC with RFE | NEC |
| L98B-A0151-xxx | | | | LCC - LCC | |
| L98B-A0646-xxx | | | | MTP®/MPO (12) - MTP®/MPO (12) | |
| L98B-A0647-xxx | L98D-181-xxx | | | MTP®/MPO (12) - MTP®/MPO (12) | |
| L98B-A0878-xxx | L98D-182-xxx | | | MTP®/MPO (12) - MTP®/MPO (12) | |
| L98B-A0879-xxx | | | | MTP®/MPO (12) - MTP®/MPO (12) | |
| L98B-A0880-xxx | | | | MTP®/MPO (12) - MTP®/MPO (12) | |

PreCONNECT® POWER Discrete Solutions

Power Cabling Solutions are ideal for harsh outdoor environments.

Features and Benefits

- Conformity with EU regulations
- CPR-rating B2ca
- Small dimensions
- Less weight
- Small bending radius
- Less windload
- Easy stripping and handling
- Time saving
- One cable clamp for all cable dimensions



Power Cables

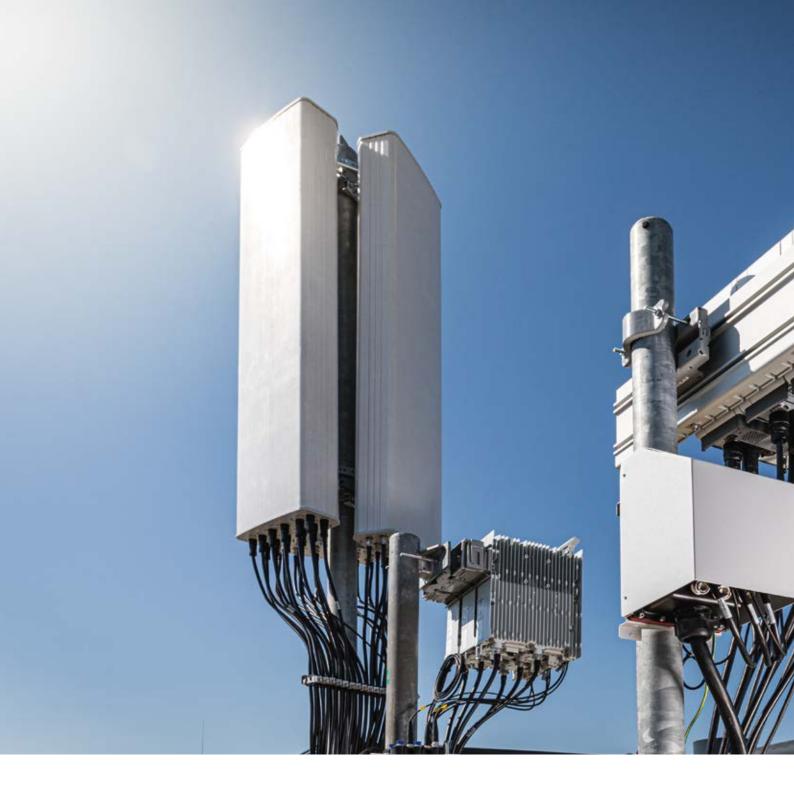
| Rosenberger No. | Description |
|----------------------|--|
| SL2C4MM2FRNC-S-BK-R | Power cable 2 x 4 mm ² , shielded, 9.2 mm (red/white) |
| SL2C6MM2FRNC-S-BK-R | Power cable 2 x 6 mm ² , shielded, 10.8 mm (red/white) |
| SL2C10MM2FRNC-S-BK-R | Power cable 2 x 10 mm², shielded, 13.6 mm (red/white) |
| SL2C16MM2FRNC-S-BK-R | Power cable 2 x 16 mm ² , shielded, 15.9 mm (red/white) |
| SL2C25MM2FRNC-S-BK-R | Power cable 2 x 25 mm², shielded, 20.4 mm (red/white) |
| SL2C35MM2FRNC-S-BK-R | Power cable 2 x 35 mm ² , shielded, 23.6 mm (red/white) |

Power Cables

| Rosenberger No. | Description |
|----------------------|--|
| SL2C4MM2FRNC-S-BK-N | Power cable 2 x 4 mm ² , shielded, 9.2 mm (blue/white) |
| SL2C6MM2FRNC-S-BK-N | Power cable 2 x 6 mm ² , shielded, 10.8 mm (blue/white) |
| SL2C10MM2FRNC-S-BK-N | Power cable 2 x 10 mm², shielded, 13.6 mm (blue/white) |
| SL2C16MM2FRNC-S-BK-N | Power cable 2 x 16 mm², shielded, 15.9 mm (blue/white) |
| SL2C25MM2FRNC-S-BK-N | Power cable 2 x 25 mm², shielded, 20.4 mm (blue/white) |
| SL2C35MM2FRNC-S-BK-N | Power cable 2 x 35 mm², shielded, 23.6 mm (blue/white) |

DC Power Cable Brown/Blue

| Rosenberger No. | Description |
|--------------------|---|
| SL2C6MM2FRNC-BK-B | Power cable 2 x 6 mm², 9.4 mm (brown/blue), full drum 500 m |
| SL2C10MM2FRNC-BK-B | Power cable 2 x 10 mm², 10.7 mm (brown/blue), full drum 500 m |
| SL2C16MM2FRNC-BK-B | Power cable 2 x 16 mm², 12.5 mm (brown/blue), full drum 500 m |
| SL2C25MM2FRNC-BK-B | Power cable 2 x 25 mm², 16.4 mm (brown/blue), full drum 500 m |
| SL2C35MM2FRNC-BK-B | Power cable 2 x 35 mm², 17.6 mm (brown/blue), full drum 500 m |



Jumper Cables

Rosenberger offers a wide range of jumper cables to meet industry standard requirements including required IP protection.



Product Overview

- Fiber optic jumper cables
- OEM interfaces
- Power jumper cables
- Patch cords, indoor
- CATx cables, indoor and outdoor

Rosenberger fiber optic and power jumper cables in combination with the outdoor Rosenberger InLine connectors offer a flexible and easy upgradable solution.

OEM Fiber Interfaces

E///

| Rosenberger No. | | | | |
|-----------------|---------------|---------------|-------------------------|-----------------------------------|
| Single Mode | Multimode OM3 | Multimode OM4 | RFE additionally needed | Connector Type |
| L98B-090-xxx | | | | LCD - LCC with RFE |
| L98B-A0992-xxx | | | | LCD - LCC with RFE, B2ca |
| L98B-091-xxx | | | | RDC (male) - LCC with RFE |
| L98B-A0709-xxx | | | yes | LCC - LCC for PreCONNECT® TMFS |
| L98B-A1138-xxx | | | | LCD - LCC with RXE |
| L98B-A0606-xxx | | | | LCC with RFE - LCC with RFE |
| 98Z111-S04 | | | | RFE - Rosenberger Fiber Enclosure |
| 98F29-178-48 | | | | RXE - Rosenberger Fiber Enclosure |

Nokia

| Rosenberger No. | | | | |
|-----------------|---------------|---------------|--------------------------|--------------------------------|
| Single Mode | Multimode OM3 | Multimode OM4 | AOPC additionally needed | Connector Type |
| L98B-A0859-xxx | L98D-227-xxx | | | LCD - LCC with IP-Seal |
| L98B-A1030-xxx | | | | LCD - LCC with AOPC |
| L98B-A0933-xxx | | | | LCC - LCC for PreCONNECT® TMFS |
| | | L98E-160-xxx | yes | LCC - LCC |
| L98B-A1015-xxx | | | | LCD - LCC with OCTIS |
| L98B-A1039-xxx | | | | RDC (male) - LCC with OCTIS |
| L98B-A0831-xxx | L98D-028-xxx | | | RDC (male) - LCC with IP-Seal |
| 475151A.102 | | | | AOPC Fiber Enclosure |

Huawei

| Rosenberger No. | | | |
|-----------------|---------------|---------------|--------------------------------|
| Single Mode | Multimode OM3 | Multimode OM4 | Connector Type |
| L98B-003-xxx | L98C-023-xxx | | LCD - LCD |
| L98B-004-xxx | | | RDC (male) - LCD |
| L98B-A0709-xxx | | | LCD - LCC for PreCONNECT® TMFS |

Samsung

| Rosenberger No. | | | |
|-----------------|---------------|---------------|------------------|
| Single Mode | Multimode OM3 | Multimode OM4 | Connector Type |
| L98B-A0150-xxx | | | RDC (male) - LCC |
| L98B-A0151-xxx | | | LCC - LCC |
| L98B-180-xxx | | | LCD - LCC |

Further configurations available on request xxx = length in mm *OM 4 available on request



Power Jumper Cables

Rosenberger Power Jumpers with their unique coaxial design provide highest flexibility. Compared to conventional two-wire cables, the Rosenberger coaxial power cables provide smaller bending radius and higher surge protection.

Features and Benefits

- Smaller diameter and higher flexibility compared to two-wire design
- Reduced wind load and weight
- 360° EMI shielding
- Low inductance
- Easy installation
- Small bending radius higher surge protection
- Termination point for power supply independent of proprietary interface
- Available in 6 mm² or 10 mm²
- UV-resistant
- Rosenberger Power connector for Tower Mounted Power System and various RRH/Active Antennas







Power jumper with power connector

Power Jumper

| Rosenberger No. | Description | |
|----------------------|--|--|
| L99-P005-xxx | PowerInLine connector on 6 mm² coaxial power cable | |
| L99-P055-xxx | Power connector on 6 mm ² coaxial power cable | |
| L99-P049-xxx | AC power connector | |
| SL2CxxMM2FRNC-S-BK-N | Power cable shielded blue/grey | |
| SL2CxxMM2FRNC-S-BK-R | Power cable shielded red/white | |
| L99-P037-xxx | Power-Jumper cable for SD007, 2 x 6 mm ² shielded | |
| L99-P110-xxx | Power-Jumper cable, 99RS73-199 with 2 x 6 mm ² shielded (red&white) | |

Jumper with 4 mm² and 10 mm² available on request

Rosenberger Power Cables acc. to DIN EN 60445

Power Cables

| Rosenberger No. | Description | |
|----------------------|---|--|
| SL2C4MM2FRNC-S-BK-R | Power cable 2 x 4 mm², shielded, 9.2 mm (red/white) | |
| SL2C6MM2FRNC-S-BK-R | Power cable 2 x 6 mm ² , shielded, 10.8 mm (red/white) | |
| SL2C10MM2FRNC-S-BK-R | Power cable 2 x 10 mm², shielded,13.6 mm (red/white) | |
| SL2C16MM2FRNC-S-BK-R | Power cable 2 x 16 mm², shielded, 15.9 mm (red/white) | |
| SL2C25MM2FRNC-S-BK-R | Power cable 2 x 25 mm², shielded, 20.4 mm (red/white) | |
| SL2C35MM2FRNC-S-BK-R | Power cable 2 x 35 mm², shielded, 23.6 mm (red/white) | |



One cable clamp type can fix the cables from 2 x 6 mm 2 up to 2 x 25 mm 2 for efficient logistics

Power Cables

| Rosenberger No. | Description |
|----------------------|--|
| SL2C4MM2FRNC-S-BK-N | Power cable 2 x 4 mm², shielded, 9.2 mm (blue/white) |
| SL2C6MM2FRNC-S-BK-N | Power cable 2 x 6 mm ² , shielded, 10.8 mm (blue/white) |
| SL2C10MM2FRNC-S-BK-N | Power cable 2 x 10 mm², shielded,13.6 mm (blue/white) |
| SL2C16MM2FRNC-S-BK-N | Power cable 2 x 16 mm², shielded, 15.9 mm (blue/white) |
| SL2C25MM2FRNC-S-BK-N | Power cable 2 x 25 mm², shielded, 20.4 mm (blue/white) |
| SL2C35MM2FRNC-S-BK-N | Power cable 2 x 35 mm², shielded, 23.6 mm (blue/white) |



| Rosenberger No. | Description | |
|--------------------|---|--|
| SL2C6MM2FRNC-BK-B | Power cable 2 x 6 mm ² , 9.4 mm (brown/blue) | |
| SL2C10MM2FRNC-BK-B | Power cable 2 x 10 mm², 10.7 mm (brown/blue) | |
| SL2C16MM2FRNC-BK-B | Power cable 2 x 16 mm², 12.5 mm (brown/blue) | |
| SL2C25MM2FRNC-BK-B | Power cable 2 x 25 mm², 16.4 mm (brown/blue) | |
| SL2C35MM2FRNC-BK-B | Power cable 2 x 35 mm², 17.6 mm (brown/blue) | |

Indoor Patch Cords

The Indoor Patch Cords provide the flexible Interconnection between the ODF and the BBU.

Features and Benefits

- Patch cords appropriate for use in indoor applications, such as mobile stations, shelters and office buildings
- Patch cords for other applications on request
- Optimized kink and crush resistance with regard to application requirements
- Operating temperature range -10 °C to +60 °C
- Standard light propagation



Indoor Patch Cords

| Rosenberger No. | | | | | | |
|-------------------------------|-----------------------------|------------------------------|-------|--------|----------|-------------------------|
| Single mode G.657A - 9/125 | Multi mode OM 2 - 50/125 | *Multi mode OM 3 - 50/125 | Pairs | Fibers | Diameter | Connector Type |
| L98B-A0157-xxx | L98C-117-xxx | L98D-218-xxx | 1 | | 2.8 mm | LC-Compact > LC-Compact |
| L98B-A0295-xxx | | L98D-229-xxx | | | | LCD > LCD |
| L98B-A0141-xxx | | | | | | LCD > SC/APC 8° |
| L98B-A0272-xxx | | | | | 2 mm | LCD > E2000HRL |
| L98B-A0308-xxx | | | | 2 | | E2000HRL > E2000HRL |
| L98B-A0600-xxx | | | | | | SC/APC 8° > E2000HRL |
| L98B-A0140-xxx | | | | | | SC/APC 8° > SC/APC 8° |
| L98B-A0008-xxx | | L98D-230-xxx | | | | SCD > LCD |
| L98B-A0011-xxx | | L98D-231-xxx | | | | SCD > FC |
| L98B-A0002-xxx | | | | | | LCS > SC/APC 8° |
| L98B-A0005-xxx | | L98D-232-xxx | | | | LCS > LCS |
| L98B-A0070-xxx | | | | 1 | | LCS > E2000HRL |
| L98B-A0085-xxx | | | | | | SC/APC 8° > SC/APC 8° |
| L98B-A0197-xxx | | | | | | E2000HRL > E2000HRL |

Further configurations available on request xxx = length between cable dividers in mm *OM 4 available on request

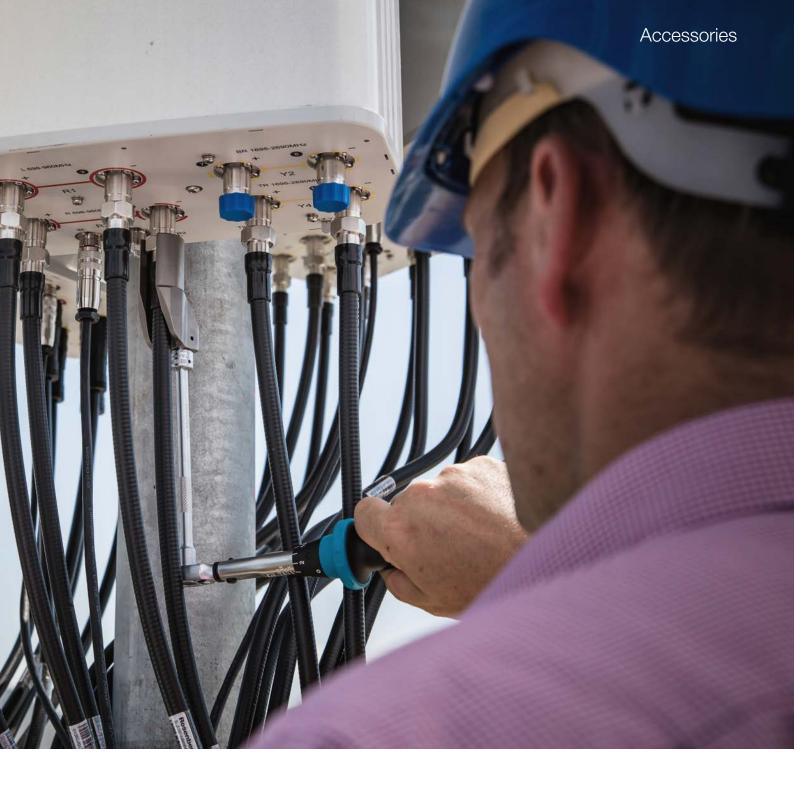
Jumper Cables

Accessories



Product Overview

- FiberInLine
- PowerInLine
- Optical distribution frames
- Interior excess fiber cable enclosures
- Power connectors
- Cable clamps



Rosenberger FiberInLine

Rosenberger FiberInLine connector allows for an easy extension of an existing fiber optic installation.

Features and Benefits

- Easy and quick extension of existing fiber optic line
- Efficient and safe installation
- No replacement of existing fiber optic line



FiberInLine Connectors

| Rosenberger No. | Description | |
|-----------------|--|--|
| 98K100-130-L02 | Flexible cable extension kit LCD adaptor | |
| 98K100-130-L04 | Flexible cable extension kit MTP®/MPO adaptor | |
| SLFDU038-01 | Flexible cable extension kit LCD adaptor, for RFE Enclosure | |
| SLFDU018-01 | Flexible cable extension kit LCD adaptor, for RFE Enclosure with Magnets | |
| SLFDU044-01 | Flexible cable extension kit MTP®/MPO adaptor for RFE Enclosure | |

Rosenberger PowerInLine and Power Connector

The Rosenberger Power Connectors with their robust design provide a robust, 360° EMI shielded connection of power cables. The connectors are specifically designed to fit shielded or unshielded conventional two wire power cables as well as coaxial power cables. The Power connector is pluggable with the TMPS as well as various RRHs while the PowerInLine connector provides an independent termination point for the power supply without the need of a bulky power distribution box.

Features and Benefits

- 360° EMI-shielding
- Independent termination point with PowerInLine connector
- Direct connection to various RRHs and TMPS with power connector
- Suitable for conventional 2-wire power cables and coaxial power cables 1 10 mm²
- Low wind load
- IP68
- High UV resistance
- High crush resistance



Power Connector 99RK73L-199N



Power Connector 7G2S101B-0M16T1



Power Connector 7F2RS105B-0M16T1



PowerInLine Connector 99C084-00N1



PowerInline Connector SLZ0113-00

Power Connectors

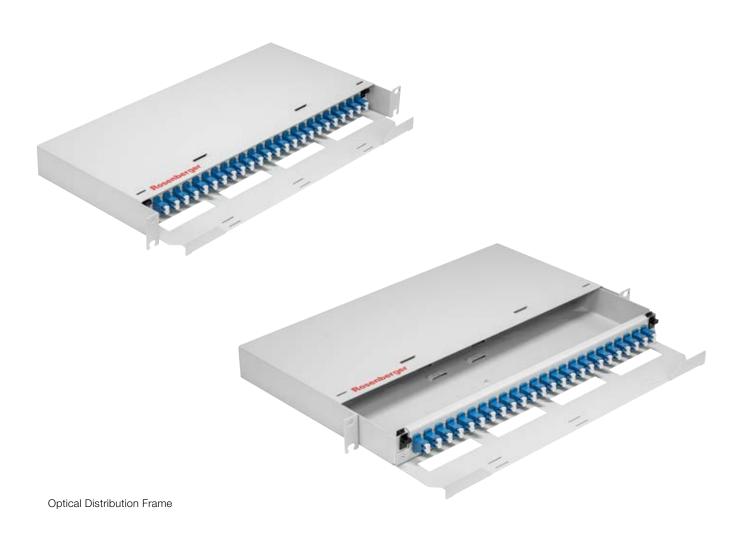
| Rosenberger No. | Description |
|------------------|---|
| 7F2RS105B-0M16T1 | 3 wire cable plug 55A/60VDC |
| 7G2S101B-0M16T1 | 3 wire cable connector 55A/60VDC |
| SLZ033-16M | 3-pin male connector up to 2 x 16 mm ² |
| SLZ033-16F | 3-pin female connector up to 2 x 16 mm ² |
| SLZ0113-00 | PowerlnLine 3-pin, 6 mm² - 35 mm² |
| 99C084-000N1 | PowerlnLine 2-pin shielded, 1 mm² -10 mm² |
| 99RK73L-199N | 3 wire bulkhead power connector 55A /60VDC |

Optical Distribution Frames

The Rosenberger Optical Distribution Frame is designed for rack installation.

Features and Benefits

- Available with 3 to 24 LC duplex
- Easy, efficient and safe installation
- Material: unpainted steel
- Removable 19" rack ears included



Optical Distribution Frames for Fiber Trunk

| Rosenberger No. | Pairs | Fibers |
|-----------------|---------|----------|
| SLODF001-xxx | 3 | 6 |
| SLODF051-xxx | 6 to 24 | 12 to 48 |

Interior Excess Fiber Cable Enclosures

The Rosenberger Excess Fiber Cable Enclosure is designed for indoor on-site storage of excess fiber cable when pre-connected fiber cables are utilized.

Features and Benefits

Material: unpainted steel

Rack mount: removable 19" rack ears included

• Capacity: 20 or 30 meters of 10 mm cable + fanouts

Mounting: wall or rack mount



Interior Excess Fiber Cable Enclosure

Interior Excess Fiber Cable Enclosures

| Rosenberger No. | | |
|-----------------|--------------------|---------------------|
| Stainless Steel | Steel, Zinc Plated | Variant |
| SLFCS001-000 | SLFCS009-000 | 1 HU without drawer |
| SLFCS003-000 | SLFCS011-000 | 1 HU with drawer |

Cable Clamps

For multiple cable runs on sites where space is limited. Without additional adaptors these clamps provide sturdy, reliable and long-term support.

C-Clamp for Flat, Round and Angular







C-Clamp Type Single

| Rosenberger No. | Description | Size |
|-----------------|------------------------------------|------------|
| SLCC111-03 | Cable clamp for ½" R cables single | 1 x ½" R |
| SLCC111-08 | Cable clamp for ½" S cables single | 1 x ½" S |
| SLCC121-03 | Cable clamp for ½" R cables double | 2 x 1/2" R |
| SLCC121-08 | Cable clamp for ½" S cables double | 2 x ½" S |
| SLCC131-03 | Cable clamp for ½" R cables triple | 3 x 1/2" R |
| SLCC131-08 | Cable clamp for ½" S cables triple | 3 x ½" S |







C-Clamp Type Twin

| o damp type twitt | | |
|-------------------|--------------------------------------|----------|
| Rosenberger No. | Description | Size |
| SLCC221-03 | Cable clamp for 1/2" R cables single | 2 x ½" R |
| SLCC221-08 | Cable clamp for ½" S cables single | 2 x ½" S |
| SLCC241-03 | Cable clamp for ½" R cables double | 4 x ½" R |
| SLCC241-08 | Cable clamp for 1/2" S cables double | 4 x ½" S |
| SLCC261-03 | Cable clamp for ½" R cables triple | 6 x ½" R |
| SLCC261-08 | Cable clamp for ½" S cables triple | 6 x ½" S |







Hook Type Clamp for Section 40 x 22, Flat and Round 3-12 mm Structures

| Rosenberger No. | Size | |
|-----------------------|----------------------------|--|
| SLCC122-C03 | 2 x ½" R | |
| SLCC122-C08 | 2 x ½" S | |
| SLCC132-C03 | 3 x ½" R | |
| SLCC132-C08 | 3 x ½" S | |
| SLCC112-0408 | 1 x 4-8 mm | |
| SLCC122-0408 | 2 x 4-8 mm | |
| SLCC132-0408 | 3 x 4-8 mm | |
| SLCC242-0408 | 4 x 4-8 mm | |
| SLCC262-0408 | 6 x 4-8 mm | |
| SLCC282-0408 | 8 x 4-8 mm | |
| SLCC242-0710 | 4 x 7-10 mm | |
| SLCC112-0814 | 1 x 8-14 mm | |
| SLCC122-1x0814+1x08 | 1 x 8-14 mm + 1 x 7-8 mm | |
| SLCC132-1x0814+2x0408 | 1 x 8-14 mm + 2 x 4-8 mm | |
| SLCC132-1x0814+2x0710 | 1 x 8-14 mm + 2 x 7-10 mm | |
| SLCC132-1x0814+2x05 | 1 x 8-14 mm x 2 x 5 mm | |
| SLCC122-0814 | 2 x 8-14 mm | |
| SLCC222-0408 | 2 x 8-14 mm | |
| SLCC142-2x0814+2x05 | 2 x 8-14 mm + 2 x 5 mm | |
| SLCC142-1x0814+2x05 | 2 x 8-14 mm + 2 x 5 mm | |
| SLCC142-2x0814+2x08 | 2 x 8-14 mm + 2 x 8 mm | |
| SLCC132-0814 | 3 x 8-14 mm | |
| SLCC162-3x0814+3x08 | 3 x 8-14 mm + 3 x 7-8 mm | |
| SLCC172-3x0814+4x05 | 3 x 8-14 mm + 4 x 5 mm | |
| SLCC172-3x0814+4x05 | 3 x 8-14 mm + 4 x 5 mm | |
| SLCC172-3x0814+4x0710 | 3 x 8-14 mm + 4 x 7-10 mm | |
| SLCC112-10 | 1 x 10 mm | |
| SLCC112-1226 | 1 x 12-26 mm | |
| SLCC132-1x1226+2x05 | 1 x 12-26 mm + 2 x 5 mm | |
| SLCC132-1x1226+2x0710 | 1 x 12-26 mm + 2 x 7-10 mm | |
| SLCC122-1226 | 2 x 12-26 mm | |
| SLCC142-2x1226+2x05 | 2 x 12-26 mm + 2 x 5 mm | |
| SLCC142-1x1226+2x05 | 2 x 12-26 mm + 2 x 5 mm | |
| SLCC152-3x1226+2x05 | 2 x 12-26 mm + 2 x 5 mm | |
| SLCC142-2x1226+2x0710 | 2 x 12-26 mm + 2 x 7-10 mm | |
| SLCC182-2x1226+6x05 | 2 x 12-26 mm + 6 x 5 mm | |
| SLCC172-3x1226+4x05 | 3 x 12-26 + 4 x 5 mm | |
| SLCC132-1226 | 3 x 12-26 mm | |
| SLCC172-3x1226+4x05 | 3 x 12-26 mm + 4 x 5 mm | |
| SLCC172-3x1226+4x0710 | 3 x 12-26 mm + 4 x 7-10 mm | |
| SLCC132-1x1432+2x0710 | 1 x 14-32 mm + 2 x 7-10 mm | |
| SLCC142-2x1432+2x0710 | 2 x 14-32 mm + 2 x 7-10 mm | |
| SLCC132-1432 | 3 x 14-32 mm | |
| SLCC142-2x2232+2x0814 | 2 x 22-32 mm + 2 x 8-14 mm | |

Cable Clamps

Clamps for multiple Fibre Optic, Power and Coax cable runs where space is limited. Various configurations possible with the use of different M10 threaded rods lengths. Using resistant and UV rated material, these clamps provide a sturdy, reliable, and long-term attachment to support structures.



SLCCM10-2x5-8

SLCCM10-2x8-14

SLCCM10-C08

SLCCM10-C03

SLCCM10-C05











SLCCM10-Cap

SLCCM10-Nut

SLCCM10-W

SLCCM10-SW

SLCCM10-R-xx

Temperature -40°C to +70°C

Salt spray test 96 hr. acc. to MIL-STD-1344:1977 Method 1001.1 UV resistance 300 hr. acc. to ISO 4892-2:2006(E) Method A

RoHS compliant

| Rosenberger No. | Size | Material |
|-----------------|------------------------------|----------------------------|
| SLCCM10-2xC03 | Pair of clamps, 2x 1/2"R | Polyamide with glass fibre |
| SLCCM10-2xC05 | Pair of clamps, 2x 7/8"R | Polyamide with glass fibre |
| SLCCM10-2xC08 | Pair of clamps, 2x 1/2"S | Polyamide with glass fibre |
| SLCCM10-2x8-14 | Pair of clamps, 2x 7,5-14 mm | Polyamide with glass fibre |
| SLCCM10-2x5-8 | Pair of clamps, 2x 4,5-8 mm | Polyamide with glass fibre |
| SLCCM10-Nut | M10 Nut | Stainless steel A2 |
| SLCCM10-W | M10 Washer | Stainless steel A2 |
| SLCCM10-SW | M10 Spring Washer | Stainless steel A2 |
| SLCCM10-R-80 | M10 threaded rod, 80 mm | Stainless steel A2 |
| SLCCM10-R-100 | M10 threaded rod, 100 mm | Stainless steel A2 |
| SLCCM10-R-110 | M10 threaded rod, 110 mm | Stainless steel A2 |
| SLCCM10-R-130 | M10 threaded rod, 130 mm | Stainless steel A2 |
| SLCCM10-R-150 | M10 threaded rod, 150 mm | Stainless steel A2 |
| SLCCM10-R-170 | M10 threaded rod, 170 mm | Stainless steel A2 |
| SLCCM10-R-180 | M10 threaded rod, 180 mm | Stainless steel A2 |
| SLCCM10-R-200 | M10 threaded rod, 200 mm | Stainless steel A2 |
| SLCCM10-R-220 | M10 threaded rod, 220 mm | Stainless steel A2 |
| SLCCM10-R-250 | M10 threaded rod, 250 mm | Stainless steel A2 |
| SLCCM10-R-300 | M10 threaded rod, 300 mm | Stainless steel A2 |
| SLCCM10-R-350 | M10 threaded rod, 350mm | Stainless steel A2 |
| SLCCM10-R-500 | M10 threaded rod, 500 mm | Stainless steel A2 |
| SLCCM10-R-1000 | M10 threaded rod, 1000 mm | Stainless steel A2 |
| SLCCM10-Cap | Yellow Rubber Cap, 8 mm | Vinyl |



Test and Cleaning Equipment

The Rosenberger test and cleaning equipment – specifically designed for site solutions applications

Test and Cleaning Equipment



Product Overview

- Fiber loop
- Inspection and cleaning kits
- Test laser EV-3
- Reel cleaner
- Click cleaner

Fiber Loop

The Rosenberger Fiber Loop is designed for use in harsh environment.

This robust and handy loop adaptor supports measurement of single mode or multimode signals on site or within the lab. It supports LC Duplex, RDC male or female interfaces. The uni-directional loop adaptor helps to detect wrong fiber assignment and cross / uncross failures.



Loop Adaptor

Fiber Loop

| Rosenberger No. | | | | | |
|----------------------------|---------------------------------|------------------------|---------------------------|--|--|
| Single mode G.657A - 9/125 | | *Multi mode OM 2 - 50/ | *Multi mode OM 2 - 50/125 | | |
| 98LCS120-L00 | Loop-adaptor LCD-2F9µ | 98LCS130-L00 | Loop-adaptor LCD-2F50µ | | |
| 98RDCK120-00 | Loop-adaptor RDCK-2F9µ | 98RDCK130-00 | Loop-adaptor RDCK-2F50µ | | |
| 98RDCS120-00 | Loop-adaptor RDCS-2F9µ | 98RDCS130-00 | Loop-adaptor RDCS-2F50µ | | |
| 98LCIS120-L00 | LC unidirectional loop LCD-2F9µ | | | | |

^{*}OM 4 available on request

Inspection and Cleaning Kit

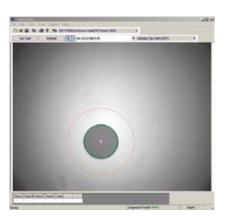
The kit includes all materials and tools for visual inspection and cleaning of FO connectors and adaptors. The main component is a video backpanel microscope. It is available with a hand-held monitor or with a USB interface, alternatively. The USB version needs a laptop or PC with USB 2.0 port.

That version comprises an additional feature compared to the monitor version: The pictures can be saved for documentation.

Microscope adaptors for \emptyset 1.25 mm and \emptyset 2.5 mm standard ferrules are included, additional adaptions to all frequently used connector types are available as accessory.







Inspection and Cleaning Kits

| Rosenberger No. | Description |
|-----------------|---|
| SLTK001-000 | Cleaning kit with video-mic., light source and Insertion Loss measurement |
| 98W018-000 | Cleaning kit with USB microscope |
| SLTK001-000/53 | Power source |
| SLTK001-000/51 | Power meter for MM fibers |
| SLTK001-000/52 | Power meter for SM fibers |
| SLTK001-000/57 | Adaptor power meter Ø 1.25 mm |

Test Laser EV-3

Laser light source for defect location, fiber identification and testing of connectors, single mode and multi mode.



Test Laser

| Rosenberger No. | Description |
|-----------------|--|
| SLTK001-000/50 | Test laser EV-3 for ferrules with Ø 1.25 mm and Ø 2.5 mm |

Reel Cleaner

Cleaning device with a dry textile ribbon for all FO connectors with the exception of MT-RJ male (with pins).

- One textile reel included
- Up to 400 cleanings per reel



Reel Cleaner

| Rosenberger No. | Description |
|-----------------|------------------|
| 98W013-000 | Reel cleaner |
| 98W013-001 | Replacement reel |

Click Cleaner

Handy cleaning tool for ferrule endfaces of FO connectors.

- Simple release of the cleaning mechanism by pushing the tool holder
- Unmating of the connector not necessary cleaning through the adaptor is available
- Extendable nozzle for cleaning connectors, being difficult accessible



| Rosenberger No. | Description |
|-----------------|---------------------------------------|
| 98W005-000 | Click cleaner, for ferrules Ø 1.25 mm |
| 98W006-000 | Click cleaner, for ferrules Ø 2.5 mm |
| 98W007-000 | Click cleaner, for RDC connectors |
| 98W012-000 | MTP®/MPO cleaner |

Tools







| Rosenberger No. | Description |
|-----------------|------------------------------|
| SLT011-1.2/3 | Torque screwdriver 1.2 -3 Nm |
| SLT011-4/8.8 | Torque screwdriver 4-8.8 Nm |
| 53W010-000 | Torque wrench |

Rosenberger No.

| 475151A.102 | 46 | L98B-128-xxx | 26 | L98B-A0745-xxx | 29 |
|-------------------|----|----------------|----|----------------|----|
| 53W010-000 | 67 | L98B-180-xxx | 46 | L98B-A0746-xxx | 29 |
| 7F2RS105B-0M16T1 | 35 | L98B-201-xxx | 40 | L98B-A0755-xxx | 41 |
| 7F2RS105B-0M16T1 | 55 | L98B-235-xxx | 25 | L98B-A0757-xxx | 25 |
| 7F2RS106B-0M16T1 | 35 | L98B-237-xxx | 40 | L98B-A0758-xxx | 41 |
| 7G2S101B-0M16T1 | 55 | L98B-A0002-xxx | 50 | L98B-A0759-xxx | 41 |
| 98F29-178-48 | 42 | L98B-A0005-xxx | 50 | L98B-A0783-xxx | 29 |
| 98F29-178-48 | 46 | L98B-A0008-xxx | 50 | L98B-A0831-xxx | 46 |
| 98K100-130-L02 | 54 | L98B-A0011-xxx | 50 | L98B-A0859-xxx | 42 |
| 98K100-130-L04 | 54 | L98B-A0070-xxx | 50 | L98B-A0859-xxx | 46 |
| 98K216-51 8-3000 | 21 | L98B-A0085-xxx | 50 | L98B-A0877-xxx | 29 |
| 98K216-518-3000-4 | 21 | L98B-A0140-xxx | 50 | L98B-A0878-xxx | 42 |
| 98K216-540-000 | 20 | L98B-A0141-xxx | 50 | L98B-A0879-xxx | 42 |
| 98K216-540-004 | 20 | L98B-A0150-xxx | 46 | L98B-A0880-xxx | 42 |
| 98K216-540-005 | 20 | L98B-A0151-xxx | 42 | L98B-A0909-xxx | 29 |
| 98LCIS120-L00 | 64 | L98B-A0151-xxx | 46 | L98B-A0933-xxx | 46 |
| 98LCS120-L00 | 64 | L98B-A0157-xxx | 50 | L98B-A0987-xxx | 12 |
| 98RDCK120-00 | 64 | L98B-A0197-xxx | 50 | L98B-A0988-xxx | 12 |
| 98RDCS120-00 | 64 | L98B-A0272-xxx | 50 | L98B-A0992-xxx | 12 |
| 98W005-000 | 67 | L98B-A0295-xxx | 50 | L98B-A0992-xxx | 42 |
| 98W006-000 | 67 | L98B-A0308-xxx | 50 | L98B-A0992-xxx | 46 |
| 98W007-000 | 67 | L98B-A0338-xxx | 41 | L98B-A1015-xxx | 42 |
| 98W012-000 | 67 | L98B-A0600-xxx | 50 | L98B-A1015-xxx | 46 |
| 98W013-000 | 66 | L98B-A0606-xxx | 46 | L98B-A1030-xxx | 42 |
| 98W013-001 | 66 | L98B-A0641-xxx | 42 | L98B-A1030-xxx | 46 |
| 98W018-000 | 65 | L98B-A0646-xxx | 42 | L98B-A1039-xxx | 46 |
| 98Z111-S04 | 42 | L98B-A0647-xxx | 42 | L98B-A1045-xxx | 12 |
| 98Z111-S04 | 46 | L98B-A0652-xxx | 31 | L98B-A1115-xxx | 12 |
| 99C084-000N1 | 35 | L98B-A0653-xxx | 31 | L98B-A1138-xxx | 46 |
| 99C084-000N1 | 55 | L98B-A0654-xxx | 31 | L98C-023-xxx | 42 |
| 99RK73L-199N | 55 | L98B-A0655-xxx | 31 | L98C-023-xxx | 46 |
| L98B-003-xxx | 42 | L98B-A0656-xxx | 31 | L98C-117-xxx | 50 |
| L98B-003-xxx | 46 | L98B-A0657-xxx | 41 | L98D-028-xxx | 46 |
| L98B-004-xxx | 46 | L98B-A0658-xxx | 41 | L98D-181-xxx | 42 |
| L98B-022-xxx | 25 | L98B-A0676-xxx | 31 | L98D-182-xxx | 42 |
| L98B-069-xxx | 25 | L98B-A0689-xxx | 41 | L98D-218-xxx | 50 |
| L98B-090-xxx | 42 | L98B-A0709-xxx | 46 | L98D-227-xxx | 42 |
| L98B-090-xxx | 46 | L98B-A0709-xxx | 46 | L98D-227-xxx | 42 |
| L98B-091-xxx | 46 | L98B-A0744-xxx | 26 | L98D-227-xxx | 46 |
| | | | | | |

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| L98D-479-xxx | 25 | SL2C10MM2FRNC-S-BK-N | 43 | SL2C6MM2FRNC-S-BK-N | 49 |
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Website

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Order No. pA 292050 · Info501FTTAPTTACatEN 50/2025

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