

FO Field

Genuine alternative
to splicing

Get more

Flexibility

Cabling freedom

Efficiency

Easy mounting

Reliability

Long-term stability



Convincing cabling solutions

Flexibility.

Cabling freedom.

Start independently

Freedom in fiber optic cabling. R&M's FO Field gives users independence. This field-terminable fiber-optic connector can be used everywhere, enabling it to support a wide range of fiber-optic installations no matter where they are: in buildings or factories, accommodation or campus networks. Its power and attenuation values meet even the highest requirements, providing a genuine alternative to splicing.

The FO Field allows you to place plug connections wherever you like and assemble them on site easily and conveniently, just in time and exactly where you need them. There's no need to make detailed plans or stock up on pigtails and patch cables. The logistics department simply has to provide the cable and FO Field Connector, then the project can begin.

Compatible with all cables

The FO Field processed all standard cable and fiber types. Plugs are available in LC and SC variants and can be used for

- Breakout, mini-breakout and loose tube cables
- Fiber in the Home (FITH) installation cables
- Cable sheaths of any material with a diameter of 1.4 to 3 mm
- Full, compact and semi-tight 600 and 900 μm conductors
- Single mode and multi mode, 125 or 250 μm versions
- Multi mode category OM2, OM3 and OM4 cables
- Single mode fibers G652.D and G657.A
- Standard (PC) and angled (APC)

“The real alternative to splice.”



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Quality. Swiss precision.

First-class performance

The FO Field meets every requirement for high data rates and low attenuation. The ultra-precise contact areas fit together seamlessly. Light signals and bits have no chance of escaping: the function test with the red light proves this straight away.

Thanks to Swiss precision, the FO Field C_i fulfills the parameters of the top-quality single mode performance categories $C_i/1$ and $C_i/2$.

- $C_i/1$: Insertion loss (IL) ≤ 0.5 dB each-to-each, return loss (RL) > 60 dB plugged in, > 55 dB in the air
- $C_i/2$: Insertion loss (IL) ≤ 0.5 dB each-to-each, return loss (RL) > 45 dB plugged in

This excellent performance meets the expectations of quality-conscious broadband network operators. They are using the FO Field in FTTH projects so that they are prepared for the video and HDTV applications of the future.

For multi mode cabling, the FO Field delivers transmission performance in line with Grade Bm_i/3. Here, the insertion loss (IL) is ≤ 0.5 dB each-to-each and the return loss (RL) > 35 dB plugged in.

The specifications defined by R&M for the FO Field are based on the standards IEC 61754-4 for SC and 61754-20 for LC, as well as TIA/EIA 604-3 and 604-10.

Fully tested

The FO Field components are manufactured under clean room conditions according to R&M's exacting quality standards. Each individual piece undergoes a full inspection, with complete documentation of the measured values. The mechanical and optical properties of the field-terminable connector correspond to the quality of prefabricated and factory-tested pigtailed.



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Efficiency. Easy mounting.

Terminating instead of splicing

Quick mounting technology simplifies the assembly of the FO Field, saving time and speeding up projects. With an intuitive twist of the hand, installers can activate the fibers. Usually, all the tools they need are scissors, wire strippers and a standard fiber cutter (cleaver) – nothing more.

The cables can be drawn into the raceways in advance, free of any obstacles, and cut to the desired length. Termination then takes just one to two minutes in five steps:

- Strip the cable, break the fiber
- Insert the fiber into the guide on the FO Field
- Test the connection with a red laser source
- Execute the two-stage clamping process, fix the conductor
- Screw on the strain relief or patch set

If the red light goes out in the side window, the connection is perfect.

Complete projects quickly

The FO Field enables users to complete a large number of projects quickly and fully without any special training, as the process requires significantly less effort than splicing equipment and activities. There is no need to call upon external splicing service providers for maintenance work.

Repairs, changes and additions to fiber-optic cabling can be carried out immediately with the FO Field. It can be rewired at least five times without any loss of quality. You can retrofit and modify local data networks without interrupting operations, giving you a highly efficient, cost-effective and streamlined solution.

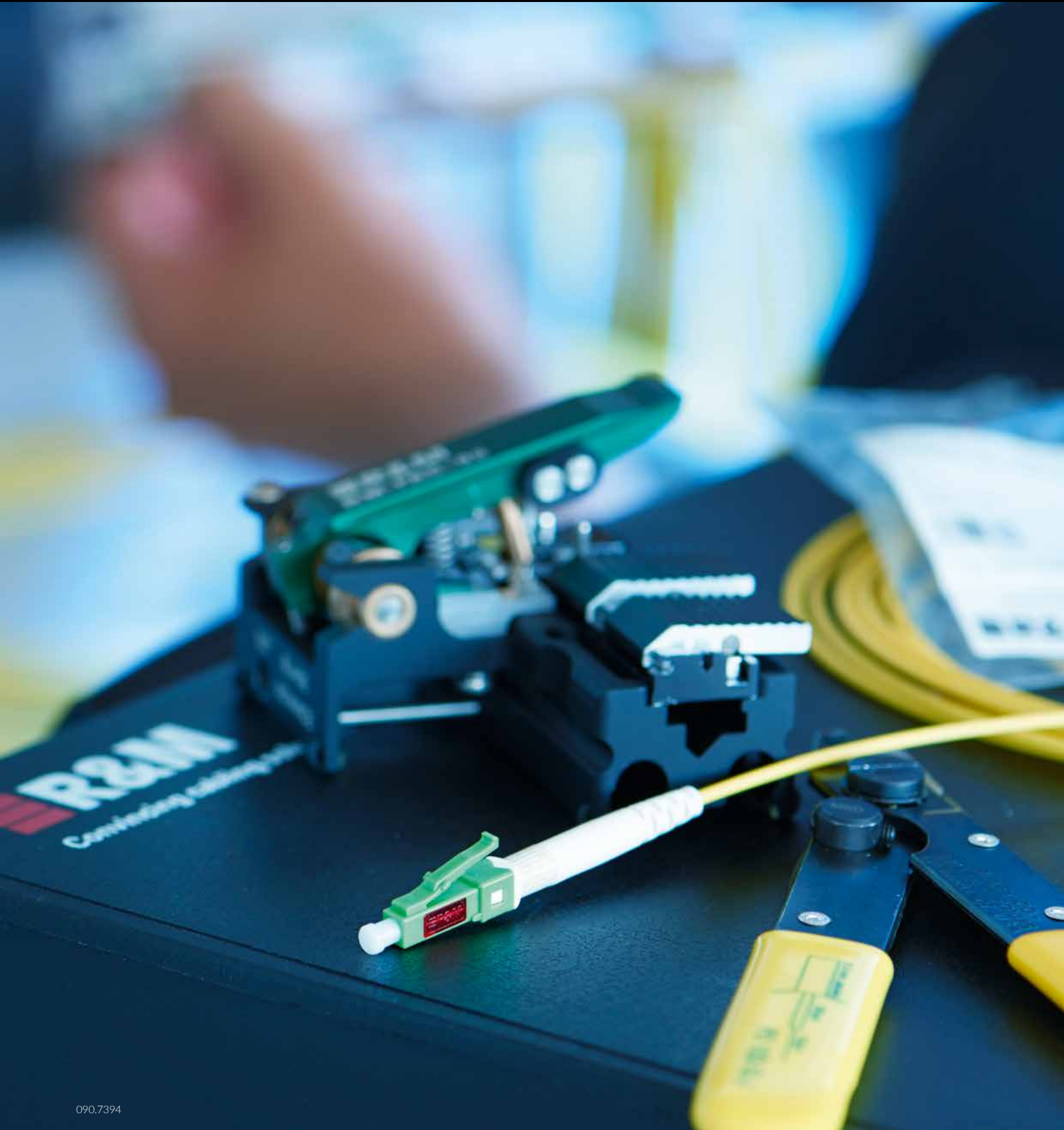
Complete tool set

R&M has all the necessary wiring, testing and cleaning equipment. The FO Field tool box includes:

- Stripping tool, fiber clamp
- Red laser source, patch cord
- Cleaning cloth, fiber container, marker pen
- Manual
- Space for a cleaver and connector set

The R&M Field Angled Cleaver 8° (RM-FAC-08) can be used to create APC connections during field termination. This precision tool can be operated intuitively and guarantees clean angled physical contact at the end of the fiber. The blades are interchangeable and the tool has been designed with a lifespan of 10 x 1000 cleaves. The modular configuration of the RM-FAC-08 Cleaver makes it a perfect fit for the FO Field range. However, it can also be used with 125/250µm fibers, 0.9mm conductors and cables up to 3.0mm.

“With an intuitive twist of the hand, installers can activate the fibers.”



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Modularity.

Wide range of applications.

Multifunctional connector

True to its modular principle, the FO Field can be combined with all of R&M's connection and distribution platforms. This is the first field-terminable fiber-optic connector to have so many top-class applications. Here are just a few of the possible scenarios where it can be used:

- In colocation centers, network operators' cabling requirements can be set up individually.
- In building entry points or wall boxes, connections can be terminated directly at the individual fibers.
- In optical termination outlets (OTOs), the FO Field establishes a connection between the building cabling and the device connection.
- In office cabling, it can be combined with the G657 fiber – which features optimized bending characteristics – for rapid assembly of Fiber to the Desk (FTTD) installations.
- The FO Field is perfectly suited to the rapid roll-out of fiber-optic networks in residential areas.

Thanks to its simple handling, the FO Field is ideal for all standard tasks in structured campus and building cabling. This flexibility and practicality of this field-terminable solution make it perfect for a wide range of specific installations in clinics, hotels, factories, sports stadiums, and data centers.

Create patch cables yourself

With the FO Field, a company's own specialists can quickly terminate patch cables at any desired length or repair broken cables at any time, without having to wait for suppliers or external technicians. Companies can reduce the amount of storage space needed for pre-terminated patch cables.

An economic solution

Small effort, big results. Choosing the FO Field also means choosing the more economic option. Low initial costs in comparison to splicing solutions allow high levels of productivity to be achieved. A small number of low-cost tools are all that is required to terminate large numbers of plug connections in a relatively short space of time. It takes just 30 minutes to learn how to work with the FO Field – and this can be done with the aid of the video, manual or R&M's Qualified Partner Program (QPP).

Now, more installation companies can speed up their entry into the dynamic fiber optics market. Optimize your range and manage the growing demand effectively.

Progress in fiber optics

Light transmits large quantities of data quickly and reliably, making optical fibers the future of information technology. Fiber-optic systems are increasingly replacing twisted-pair copper cabling. Planners, installers and customers are already in tune with these developments and are looking for user-friendly fiber-optic solutions. Above all, they expect fiber-optic systems with greater flexibility. Installation must be as simple, quick and efficient as possible, while the connection technology must still guarantee high performance levels so that the full effects of light transmission can be harnessed.

With the FO Field, R&M has united all the desires and expectations of the operators on this market in one single product. This field-terminable fiber-optic connector meets standard and high-end requirements in equal measure. The FO Field is the first fully fledged alternative to fusion splicing and a huge step forward for fiber-optic technology. The cost/benefit ratio shows that, for many fiber-optic projects, the FO Field offers the most flexible, efficient and simple solution.

“This is the first field-terminable fiber-optic connector to have so many top-class applications.”

FO Field Products

- R820787** FO Field LC, grade Cf, APC, green, G657.A fiber stub, 250µm fibers up to 0.9mm fibers
- R820788** FO Field LC, grade Cf, APC, green, G652.D fiber stub, 250µm fibers up to 0.9mm fibers
- R820789** FO Field LC, grade Cf, PC, blue, G657.A fiber stub, 250µm fibers up to 0.9mm fibers
- R820790** FO Field LC, grade Cf, PC, blue, G652.D fiber stub, 250µm fibers up to 0.9mm fibers
- R820791** FO Field LC, grade Bmf, PC, beige, OM4 fiber stub, 250µm fibers up to 0.9mm fibers
- R820792** FO Field SC, grade Cf, APC, green, G657.A fiber stub, 250µm fibers up to 0.9mm fibers
- R820793** FO Field SC, grade Cf, APC, green, G652.D fiber stub, 250µm fibers up to 0.9mm fibers

- R820794** FO Field SC, grade Cf, PC, blue, G657.A fiber stub, 250µm fibers up to 0.9mm fibers
- R820795** FO Field SC, grade Cf, PC, blue, G652.D fiber stub, 250µm fibers up to 0.9mm fibers
- R820796** FO Field SC, grade Bmf, PC, beige, OM4 fiber stub, 250µm fibers up to 0.9mm fibers
- R810206** FO Field patch set, 1.4–3.0mm cables
- R810212** Tool Kit FO Field

For more information and products, visit
www.rdm.com



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