Fiber Optic Components
Product Catalog 2019

R&M
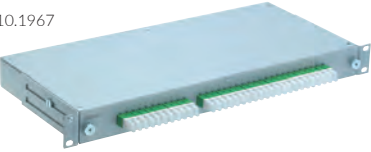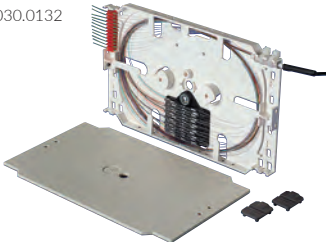
R&M –
the basis for development.

«The security of knowing that R&M will still be around in 10 years is a good feeling.»

- With R&M, you benefit from a reliable partner with a strong brand
- At R&M, you get everything from a single source
- Be at the cutting edge of technology thanks to an active
  exchange of expertise
- Enjoy more success thanks to customized solutions and a long-term partnership
- 100% production monitoring, personalized training sessions and R&M certifications of
  assembled end products guarantee the highest quality standards
- R&M offer to test and assess the quality of your assembling process. The broard test
  report comprise valuable information and hints for improvement

050.2205

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FO Connectors
for industrial manufacturing

Features

Security
100% production monitoring

Stability
Certification of your processes

Service
Exchange of expertise

R&M

	Description	Date/value

030.5839

E-2000™ Simplex

Applications:	WAN, LAN, CATV, metrology, railway, industry
Standardisation:	EN-186-270 and IEC 61754-15
Fiber types:	E9/125, G50/125, G62.5/125
Ferrule polish geometry:	APC 8° (SM) and PC (SM / MM) versions
Features:	Full ceramic ferrule, locking type latched push-pull, spring-loaded shutters and protective cap, ferrule protected, long connector guide, full laser protection.
Color coding:	green, blue, magenta, turquoise, orange, red, brown, yellow, violet, white, black
Mechanical coding:	red, brown, yellow, orange, violet, white

090.7450 / 090.6746

E-2000™-Compact (Small Form Factor [SFF])

Applications:	LAN (Fiber-to-the-desk solutions), industry
Standardisation:	IEC 61754-15
Fiber types:	E9/125, G50/125, G62.5/125
Ferrule polish geometry:	APC 8° (SM) and PC (SM / MM) versions
Features:	High packing density, worldwide smallest E-2000™ in conformance with IEC 61754-15. RJ45 design.
Color coding:	green, blue, magenta, turquoise, orange, red, white, black
Mechanical coding:	red, brown, yellow, orange, violet, white

090.7332 / 090.6512

LC Simplex / LC-Duplex

Applications:	LAN, WAN, FTTH, DC
Standardisation:	IEC 61754-20
Fiber types:	E9/125, G50/125, G62.5/125
Ferrule polish geometry:	APC 8° (SM) and PC (SM / MM) versions
Features:	High packing density, two plugs in dimension of SC, laser shutter integrated.
Color coding:	LC Simplex: green, blue, turquoise, orange, beige, violet
	LC-Duplex: green, blue, turquoise, orange, beige, red, yellow, violet, black
Mechanical coding:	LC-Duplex: red, brown, yellow, violet, white, black

090.7705 / 090.2360

SC Simplex / SC-Duplex

Applications:	WAN, LAN, industry
Standardisation:	IEC 61754-4
Fiber types:	E9/125, G50/125, G62.5/125
Ferrule polish geometry:	APC 8°+9° (SM) and PC (SM / MM) versions
Features:	Full ceramic ferrule, locking type push-pull.

090.2727 / 090.5604

SC-RJ (Small Form Factor [SFF])

Applications:	WAN, LAN (Fiber-to-the-desk solutions)
Standardisation:	IEC 61754-24
Fiber types:	E9/125, G50/125, G62.5/125
Ferrule polish geometry:	APC 8°+9° (SM) and PC (SM / MM) versions
Features:	High packing density, worldwide smallest SC-Duplex in conformance with IEC 61754-4. RJ45 design backwards compatible with SC Simplex.
Color coding:	green, blue, turquoise, orange, red, yellow, violet, anthracite
Mechanical coding:	red, brown, yellow, violet, white, black

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Connector E-2000™
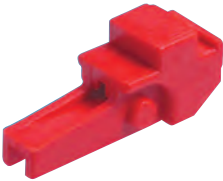
Features

- The connector housing fully protects the ferrule against dust, dirt and scratches
- Spring-loaded metal shutter
- No different expansion coefficients thanks to full ceramic ferrule
- Color- and mechanical coding system
- Injection-molded PBT housing, UL-listed
- Same ferrule holder as for SC

Ordering Information	Description	PU	Part Number
030.5991	**Connector E-2000™** Supplied: • Connector housing with silver metal shutter • Ferrule holder including ferrule		
	APC, SM, green, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R847353
	APC, SM, red, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R847355
	APC, SM, green, 126.0 (+1/-0) µm	100	R847354
	PC, SM, blue, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R847356
	PC, SM, blue 126.0 (+1/0) 1.0 µm con	100	R847357
	PC, MM, beige 126.0 (+1/0) 1.0 µm con	100	R847358
	PC, MM, black 126.0 (+1/0) 1.0 µm con	100	R847360
	PC, MM, beige, 127.0 (+4/-0) µm	100	R847359
	PC, MM, black, 127.0 (+4/-0) µm	100	R847361
090.2960	**Service Adapter E-2000™** Simplifies the cleaning of the E-2000™ connector. Plugging the adapter in automatically opens the laser dust cover, releasing the ferrule.	5	R316625
030.6064	**Tuning Support Tool**	1	R852201
030.6081	**E-2000™ Housing Dismantle Tool**	1	R851104

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Ordering Information	Description	PU	Part Number
	Lever E-2000™ Connector, Color coding for E-2000™ connector. Lever not mechanically coded.		
	green	50	R307018
	blue	50	R307017
	yellow	50	R840233
	magenta	50	R840234
	turquoise	50	R840235
030.6075	**black**	50	R309210
	green	12	R304406
	blue	12	R304404
	yellow	12	R304432
	turquoise	12	R308034
	black	12	R304409
	orange	12	R304407
	red	12	R304408
	brown	12	R304405
	violet	12	R308035
010.2315	**white**	12	R304403
	Lever E-2000™ Connector, Color coding for E-2000™ connector. Lever mechanically coded.		
	code 1, red	12	R306648
	code 2, brown	12	R306651
	code 3, yellow	12	R306650
	code 4, orange	12	R306649
	code 5, violet	12	R306647
	code 6, white	12	R306646
	Lever E-2000™-Compact Connector, Color coding for E-2000™-Compact connector. Lever not mechanically coded.		
	green	12	R305514
	blue	12	R305513
	magenta	12	R809767
	turquoise	12	R309004
	orange	12	R305515
	red	12	R314752
	white	12	R305518
010.2194	**black**	12	R305517
	Lever E-2000™-Compact Connector, Color coding for E-2000™-Compact connector. Lever mechanically coded.		
	code 1, red	12	R807346
	code 2, brown	12	R807347
	code 3, yellow	12	R807348
	code 4, orange	12	R807349
	code 5, violet	12	R807350
090.6689	**code 6, white**	12	R807351

Ordering Information	Description	PU	Part Number
090.6688	**Duplex Clip, connector E-2000™** This clip makes duplex applications possible. Color: black.	12	RXXXXXX
090.2392	**Patch Guard E-2000™ / E-2000™-Compact Connector** Patch Guard for E-2000™ and E-2000™-Compact connectors.	12	R314389
090.2393	**Key Patch Guard E-2000™ Connector** Key to Patch Guard for E-2000™ connectors.	1	R314390
090.2394	**Key Patch Guard E-2000™-Compact Connector** Key to Patch Guard for E-2000™-Compact connectors.	1	R314391
090.3117	**Boot 90° R30** With the subsequent mountable 90° boot existing or new networks can be updated. The 90° boot guaranties an optimized fiber guidance (R>30 mm), even by load caused by the cable. An uncontrolled fiber bending and resulting attenuation or even broken fiber can be avoided in no time. ℹ️ For connectors IP20: all types E-2000™, LC and SC.	12	R505756

Ordering Information	Description	PU	Part Number
	Crimp Set E-2000™ / SC, 0.9 mm tube, short, Colored connector boot, short version, 13.5 mm length. For tubes from Ø 0.6 - 1.2 mm. Material boot: TPE, self extinguishing, free of halogen.		
090.6518	**green**	100	R810593
	blue	100	R810594
	red	100	R521640
	black	100	R810595
	orange	100	R851106
	gray	100	R851107
	turquoise	100	R851108
	pink	100	R851109
	brown	100	R851110
	violet	100	R852192
	white	100	R852193
	beige	100	R852194
	yellow	100	R852195
	Crimp Set all Types E-2000™ / LC / SC, 1.7 mm cable, Crimp sleeve and colored connector boot. For cables from Ø 1.4 - 1.7 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
090.7151	**green**	100	R812801
	blue	100	R812802
	red	100	R812804
	black	100	R812803
	Crimp Set all Types E-2000™ / LC / SC, 2.2 mm cable, Crimp sleeve and colored connector boot. For cables from Ø 1.8 - 2.2 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
090.7151	**green**	100	R812805
	blue	100	R812806
	red	100	R812808
	black	100	R812807
	turquoise	100	R821290
	gray	100	R821291
	pink	100	R821292
	brown	100	R821293
	violet	100	R821294
	white	100	R509098
	orange	100	R816291
	yellow	100	R816292

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Crimp Set E-2000™

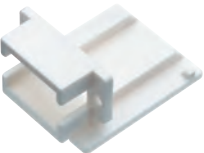| Ordering Information	Description	PU	Part Number
090.7151	**Crimp Set all Types E-2000™ / LC / SC, 2.6 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 2.3 - 2.6 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R812809
	blue	100	R812810
	red	100	R813159
	black	100	R813158
090.7151	**Crimp Set all Types E-2000™ / LC / SC, 3.0 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 2.7 - 3.0 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R813160
	blue	100	R813161
	red	100	R813163
	black	100	R813162

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Adapter E-2000™

Features

- Injection-molded PBT housing, UL-listed
- Integral self-closing metal laser protection flaps
- Long guiding section of connector body
- Split ceramic sleeve
- 1000 mating cycles
- Semi-transparent plastic dust cover, allowing optical testing with test lasers without removing the cover

i Ceramic = zirconia ceramic alignment sleeve

Ordering Information	Description	PU	Part Number
030.5951	**Adapter E-2000™ (screwable)** Adapter E-2000™ with semi-transparent dust caps. Quick mounting clip and M2 thread integrated. Supplied: • Adapter E-2000™ • 2 Philips head screws M2 x 8, blue galvanized		
	APC, green, ceramic SM, B	12	R846838
	APC, red, ceramic SM, B	12	R840222
	PC, blue, ceramic SM, B	12	R846841
	APC, green, ceramic, SM, C	12	R846577
	PC, blue, ceramic, SM, C	12	R846580
	PC, heather violet, ceramic MM, M	12	R847352
	PC, turquoise, ceramic MM, M	12	R847351
	PC, beige, ceramic MM, M	12	R847080
	PC, black, ceramic MM, M	12	R847081
030.5952	**Adapter E-2000™ (flangeless)** Adapter E-2000™ flangeless with semi-transparent dust caps. Quick mounting clip integrated. Optimal front plate whickness: 1.3 mm / 1.7 mm		
	APC, green, ceramic SM, B	12	R846341
	PC, blue, ceramic SM, B	12	R846342
	APC, green, ceramic, SM, C	12	R846339
	PC, blue, ceramic, SM, C	12	R846340
	PC, heather violet, ceramic MM, M	12	R846576
	PC, turquoise, ceramic MM, M	12	R846345
	PC, beige, ceramic MM, M	12	R846343
	PC, black, ceramic MM, M	12	R846344

Adapter E-2000™ simplex

Ordering Information	Description	PU	Part Number
 090.7512	**Frame E-2000™ Adapter,** Color coding for E-2000™ adapter. Frame not mechanically coded. **green**	 1	 R823208
	blue	1	R823209
	beige	1	R823210
	magenta	1	R823211
	turquoise	1	R823212
	orange	1	R823213
	red	1	R823214
	brown	1	R823215
	yellow	1	R823216
	violet	1	R823217
	white	1	R823218
	black	1	R823219
 090.7511	**Frame E-2000™ Adapter,** Color coding for E-2000™ adapter. Frame mechanically coded. **code 1, red**	 12	 R823220
	code 2, brown	12	R823221
	code 3, yellow	12	R823222
	code 4, orange	12	R823223
	code 5, violet	12	R823224
	code 6, white	12	R823225
 030.0308	**Dummy Plug E-2000™ / SC / LCduz (13x9 mm)** For E-2000™, SC and LC-Duplex mounting holes. Dimensions cutout: 13 x 9 mm Front panel wall thickness: 1.5 mm	12	R30004-20
 010.2380	**45° Clip for Adapter E-2000™ LC/SC** For flangeless adapter versions	50	R815789
 090.2929	**Universal Adapter, empty, SC/E-2000™/LC-Duplex** Universal adapter without adapters.	1	R318742

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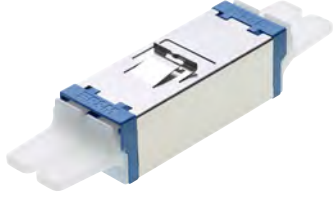
Adapter E-2000™ Compact
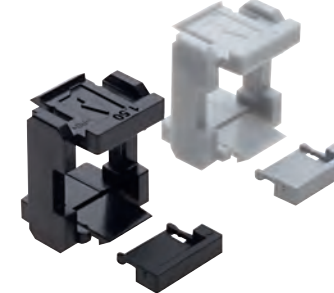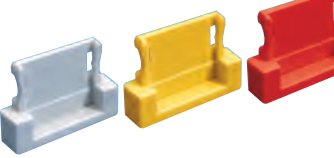
Features

- Metal housing
- Integral self-closing metal laser protection flaps
- Long guiding section of connector body
- Split ceramic sleeve
- 1000 mating cycles (zirconia ceramic alignment sleeve)
- Semi-transparent plastic dust cover, allowing optical testing with test lasers without removing the cover
- UL-listed

ℹ️ Ceramic = zirconia ceramic alignment sleeve

Ordering Information	Description	PU	Part Number
090.7450	**Adapter E-2000™-Compact (screwable)** Adapter E-2000™-Compact with semi-transparent dust caps. Quick mounting clip and M2 thread integrated. Supplied: • Adapter E-2000™-Compact • 2 Philips head screws M2 x 4, blue galvanized		
	APC, green, ceramic SM, B	12	R823261
	PC, blue, ceramic SM, B	12	R823262
	APC, green, ceramic, SM, C	12	R823898
	PC, blue, ceramic, SM, C	12	R823899
	PC, heather violet, ceramic SM, M	12	R823862
	PC, turquoise, ceramic SM, M	12	R823861
	PC, beige, ceramic MM, M	12	R823263
	PC, black, ceramic MM, M	12	R823264
090.7452	**Adapter E-2000™-Compact (flangeless)** Adapter E-2000™-Compact flangeless with semi-transparent dust caps. Quick mounting clip integrated. Optimal front plate whickness: 1.3 mm / 1.7 mm		
	APC, green, ceramic SM, B	12	R823257
	PC, blue, ceramic SM, B	12	R823258
	APC, green, ceramic, SM, C	12	R823896
	PC, blue, ceramic, SM, C	12	R823897
	PC, heather violet, ceramic SM, M	12	R823868
	PC, turquoise, ceramic SM, M	12	R823867
	PC, beige, ceramic MM, M	12	R823259
	PC, black, ceramic MM, M	12	R823260
090.7526	**Adapter E-2000™-Compact (one channel)** Adapter E-2000™-Compact flangeless with semi-transparent dust caps. Quick mounting clip integrated. Supplied: • Adapter E-2000™-Compact, Support plate		
	APC, green, ceramic SM, B	12	R823265
	PC, blue, ceramic SM, B	12	R823266
	PC, beige, ceramic, MM, M	12	R823267
	PC, black, ceramic, MM, M	12	R823268

Ordering Information	Description	PU	Part Number
 090.7578	**Color Clip E-2000™-Compact Adapter** Color clip for E-2000™-Compact adapter. Clip not mechanically coded. **green** **blue** **magenta** **turquoise** **orange** **red** **white** **black**	 12 12 12 12 12 12 12 12	 R823226 R823227 R823228 R823229 R823230 R823232 R823233 R823234
 090.7579	**Color Clip E-2000™-Compact Adapter,** Color clip for E-2000™-Compact adapter. Clip with mechanical coding. **code 1, red** **code 2, brown** **code 3, yellow** **code 4, orange** **code 5, violet** **code 6, white**	 12 12 12 12 12 12	 R823235 R823236 R823237 R823238 R823239 R823240
 090.6819	**Dummy Plug E-2000™-Compact (13.1 x 14.8 mm)** For sheet metal cutouts of 13.1 x 14.8 mm in diameter. Front panel wall thickness: 1.5 and 2 mm. Color: black (RAL 9005). ℹ️ **New Version E-2000™-Compact.**	100	R809762
 090.6692	**Snap-in Frame E-2000™-Compact Adapter,** Snap-in frame for adapters E-2000™-Compact flangeless with semi-transparent dust caps. Supplied: • Snap-in Frame • Coding clip **gray** **black**	 10 10	 R805807 R807345
 010.1713	**Snap-in Coding Clip, Color coding clip for snap-in** **adapters and the multimedia outlet.** **anthracite** **blue** **brown** **yellow** **green** **violet** **white**	 10 10 10 10 10 10 10	 R302151 R302152 R302153 R302158 R302154 R302156 R302157

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LC Components
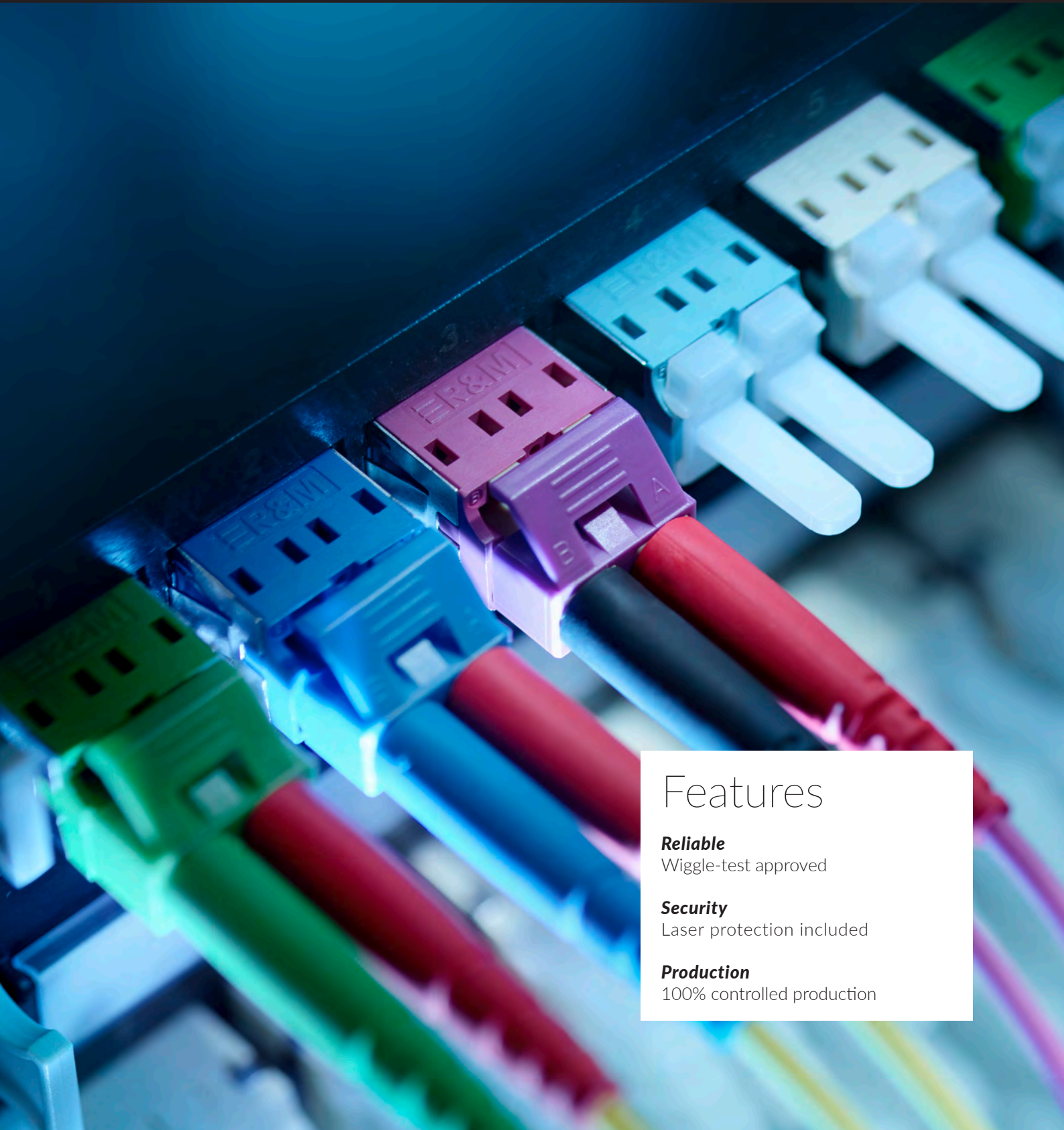
Features

Reliable
Wiggle-test approved

Security
Laser protection included

Production
100% controlled production

R&M

Connector LC

Features

- Connector tunable in 30° steps
- Injection-molded PBT housing, UL-listed
- Locking type latched push-pull
- Ferrule rotation locked when assembled
- Ferrule with end-face of Ø 0.6 mm and 35° dome angle.

Ordering Information	Description	PU	Part Number
090.6521	**Connector LC (pigtail)** Supplied: • Connector housing • Ferrule holder for pigtail incl. ferrule • White plastic dust cover • Two spacer sleeve per 100 connectors		
	APC, SM, green, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R851081
	APC, SM, green, 126.0 (+1/-0) µm	100	R851077
090.6523	**Connector LC (pigtail)** Supplied: • Connector housing • Ferrule holder for pigtail incl. ferrule • White plastic dust cover • Two spacer sleeve per 100 connectors		
	PC, SM, blue, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R851079
	PC, SM, blue, 126.0 (+1/-0) µm	100	R851075
	PC, MM, beige, 126.0 (+1/-0) µm	100	R851073
	PC, MM, beige, 127.0 (+2/-0) µm	100	R851071
090.6522	**Connector LC (patch cable)** Supplied: • Connector housing • Ferrule holder for patch cable incl. ferrule • White plastic dust cover • Two spacer sleeve per 100 connectors		
	APC, SM, green, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R851080
	APC, SM, green, 126.0 (+1/-0) µm	100	R851076

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Ordering Information	Description	PU	Part Number
 090.6525	**Connector LC (patch cable)** Supplied: • Connector housing • Ferrule holder for patch cable incl. ferrule • White plastic dust cover • Two spacer sleeve per 100 connectors **PC, SM, blue, 125.2 (+0.5/-0) μm, 0.5 μm con** **PC, SM, blue, 126.0 (+1/-0) μm** **MM, beige, 126.0 (+1/-0) μm** **MM, beige, 127.0 (+2/-0) μm**	 100 100 100 100	 R851078 R851074 R851072 R851070
 090.6520	**Spacer sleeve, LC dispensing** Spacer sleeve which is routed over glue-needle to ensure the optimal depth of the needle. (Two pieces included in connector set of 100 pcs).	10	R803487
 090.6519	**Color Clip LC Connector,** Color clip for LC connector. **green** **blue** **turquoise** **orange** **beige** **violet** **heather violet**	 100 100 100 100 100 100 100	 R802925 R802926 R802927 R802928 R802929 R802930 R846313
 090.5199	**Color Clip LC-Duplex Connector,** Color clip for LC-Duplex connector. **green** **blue** **turquoise** **orange** **beige** **red** **yellow** **violet** **black** **heather violet**	 12 12 12 12 12 12 12 12 12 12	 R508098 R508104 R508100 R508097 R508105 R508103 R508102 R508101 R508099 R846314
 090.5031 090.5034	**Plug Guard LC-Duplex Connector** Plug Guard for LC-Duplex connector. **Key Plug Guard LC-Duplex Connector** Key to Plug Guard for LC-Duplex connector.	1 1	R508116 R508117
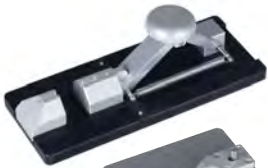
LC-QR

Features
- Highest packing density on the patch panel
- Monitoring/R&MinteliPhy
- Polarity reversal
- Optimum radius limitation on the patch cable

030.5775

Ordering Information	Description	PU	Part Number
030.5771	**Connector LC-QR Uniboot**		
	Connector-LC-QR-Uni/PC-125.2µm-C0.5µm bl	50	R841476
	Connector-LC-QR-Uni/APC-125.2µm-C0.5µm gn	50	R842203
	Connector-LC-QR-Uni/PC-126µm-C1µm bk/tr	50	R842204
	Connector-LC-QR-Uni/PC-126µm-C1µm bk/hvt	50	R842205
030.5820	**Crimpsets for LC-QR Uniboot**		
	Crimp sleeve 1.4-1.7mm	100	R841477
	Crimp sleeve 1.8-2.2mm	100	R841478
030.6069	**Twin Fiber Cable for LC-QR Uniboot**		
	Twin Fiber Cable OM4-2x250 µm/1.4mm hv	2000	R849833
	Twin Fiber Cable OM3-2x250 µm/1.4mm tr	2000	R849834
	Twin Fiber Cable G657-A2-2x250 µm/1.4mm ye	2000	R849835

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Ordering Information	Description	PU	Part Number

030.5815

Assembling auxiliary tools for LC-QR
The assembling of a LC-QR (without restriction to cable type or Uniboot)
requires a lot of skills. R&M offers auxiliary tools, which reduce the assembly
time and ensure repeatable quality.

030.5813

030.5812

030.5814

Description	PU	Part Number
Assembly tool LC-QR housing (Image 030.5815)	1	R837007
Assembly Tool-LC-QR-Uniboot (Image 030.5813)	1	R837008
Assembly Tool LC-QR Duplex Cable (Image 030.5812)	1	R837009
Wire Stripper LC-QR-Coating (Image 030.5814)	1	R837010

Mounting- & Dismounting tool for Adapter
Mounting R&M adapters* into high-density panels will be
child's play with the new Mounting- & Dismounting-tool from R&M.

* LC duplex, SC simplex, E-2000 simplex and MPO

Description	PU	Part Number
Adapter-Tool	1	R841481

30.5816

Crimp Set LC

Ordering Information	Description	PU	Part Number

090.6518 | **Crimp Set LC, 0.9 mm tube,**
Colored connector boot, short version, 12.3 mm length. For tubes from Ø 0.6 - 1.2 mm.
Material boot: TPE, self extinguishing, free of halogen. | | |
	green	100	R802932
	blue	100	R802933
	red	100	R802936
	black	100	R802931
	beige	100	R802934
	white	100	R802935
	gray	100	R802937
	brown	100	R802938
	yellow	100	R802939
	orange	100	R802940
	pink	100	R802941

090.7151 | **Crimp Set all Types E-2000™ / LC / SC, 1.7 mm cable,**
Crimp sleeve and colored connector boot. For cables from Ø 1.4 - 1.7 mm.
Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen. | | |
	green	100	R812801
	blue	100	R812802
	red	100	R812804
	black	100	R812803

090.7151 | **Crimp Set all Types E-2000™ / LC / SC, 2.2 mm cable,**
Crimp sleeve and colored connector boot. For cables from Ø 1.8 - 2.2 mm.
Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen. | | |
	green	100	R812805
	blue	100	R812806
	red	100	R812808
	black	100	R812807
	turquoise	100	R821290
	gray	100	R821291
	pink	100	R821292
	brown	100	R821293
	violet	100	R821294
	white	100	R509098
	orange	100	R816291
	yellow	100	R816292

R&M

Ordering Information	Description	PU	Part Number

Crimp Set all Types E-2000™ / LC / SC, 2.6 mm cable,
Crimp sleeve and colored connector boot. For cables from Ø 2.3 - 2.6 mm.
Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.

		PU	Part Number
green		100	R812809
blue		100	R812810
red		100	R813159
black		100	R813158

090.7151

Crimp Set all Types E-2000™ / LC / SC, 3.0 mm cable,
Crimp sleeve and colored connector boot. For cables from Ø 2.7 - 3.0 mm.
Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.

		PU	Part Number
green		100	R813160
blue		100	R813161
red		100	R813163
black		100	R813162

090.7151

Adapter LC-Duplex

Features
- Compact design (SFF)
- Outstanding optical performance
- Duplex adapter fits in SC Simplex cutout
- Integral self-closing metal laser protection flaps
- Semi-transparent plastic dust cover, allowing optical testing with test lasers
  without removing the cover

i Ceramic = zirconia ceramic alignment sleeve

Ordering Information	Description	PU	Part Number
090.7332	**Adapter LC-Duplex (screwable)** Adapter LC-Duplex with semi-transparent dust caps. Quick mounting clip and M2 thread integrated. Supplied: • Adapter LC-Duplex • 2 Philips head screws M2 x 8, blue galvanized		
	Adapter LC-Duplex APC, green, ceramic SM, C	12	R820415
	Adapter LC-Duplex PC, blue, ceramic SM, C	12	R820416
	Adapter LC-Duplex PC, heather violet, ceramic MM, M	12	R823205
	Adapter LC-Duplex PC, turquoise, ceramic MM, M	12	R823203
	Adapter LC-Duplex PC, beige, ceramic MM, M	12	R820417
090.7334	**Adapter LC-Duplex APC, flangeless)** LC-Duplex adapter flangeless with semi-transparent dust caps. Quick mounting clip integrated. Optimal frontplate thickness: 1.3 – 1.7 mm		
	Adapter LC-Duplex APC, green, ceramic SM, C	12	R820418
	Adapter LC-Duplex PC, blue, ceramic SM, C	12	R820419
	Adapter LC-Duplex PC, heather violet, ceramic MM, M	12	R823206
	Adapter LC-Duplex PC, turquoise, ceramic MM, M	12	R823204
	Adapter LC-Duplex PC, beige, ceramic MM, M	12	R820420
090.7478	**Color coding Clip LC-Duplex** Matching the LC-Duplex adapters. Six clips per block.		
	Color Coding Clip LC-Duplex Adapter, green	1	R820806
	Color Coding Clip LC-Duplex Adapter, blue	1	R820807
	Color Coding Clip LC-Duplex Adapter, ivory	1	R820808
	Color Coding Clip LC-Duplex Adapter, turquoise	1	R820810
	Color Coding Clip LC-Duplex Adapter, orange	1	R820809
	Color Coding Clip LC-Duplex Adapter, red	1	R820812
	Color Coding Clip LC-Duplex Adapter, yellow	1	R820811
	Color Coding Clip LC-Duplex Adapter, violet	1	R820814
	Color Coding Clip LC-Duplex Adapter, anthracite	1	R820813
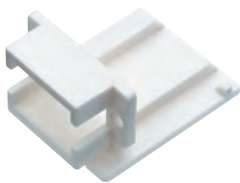
Ordering Information	Description	PU	Part Number
090.2929	**Universal Adapter, empty, SC/E-2000™/LC-Duplex** Universal adapter without adapters.	1	R318742
	Adapter frame «special» equipped with LC Duplex Adapter frame «special» assembled with LC Duplex adapter fitting into selected R&M Patch Panels and outlets which are designed for the mounting of RJ45 Cat. 6$_A$ Cat. 6$_A$ EL and Cat. 6 EL modules. Supplied: • Adapter frame special LC Duplex		
090.7863	**APC, green, ceramic SM, C** **PC, blue, ceramic SM, C** **PC, beige, ceramic MM, M** **PC, turquoise, ceramic MM, M** **PC, heather violet, ceramic MM, M**	10 10 10 10 10	R840200 R821302 R821303 R840201 R840203

SC Components
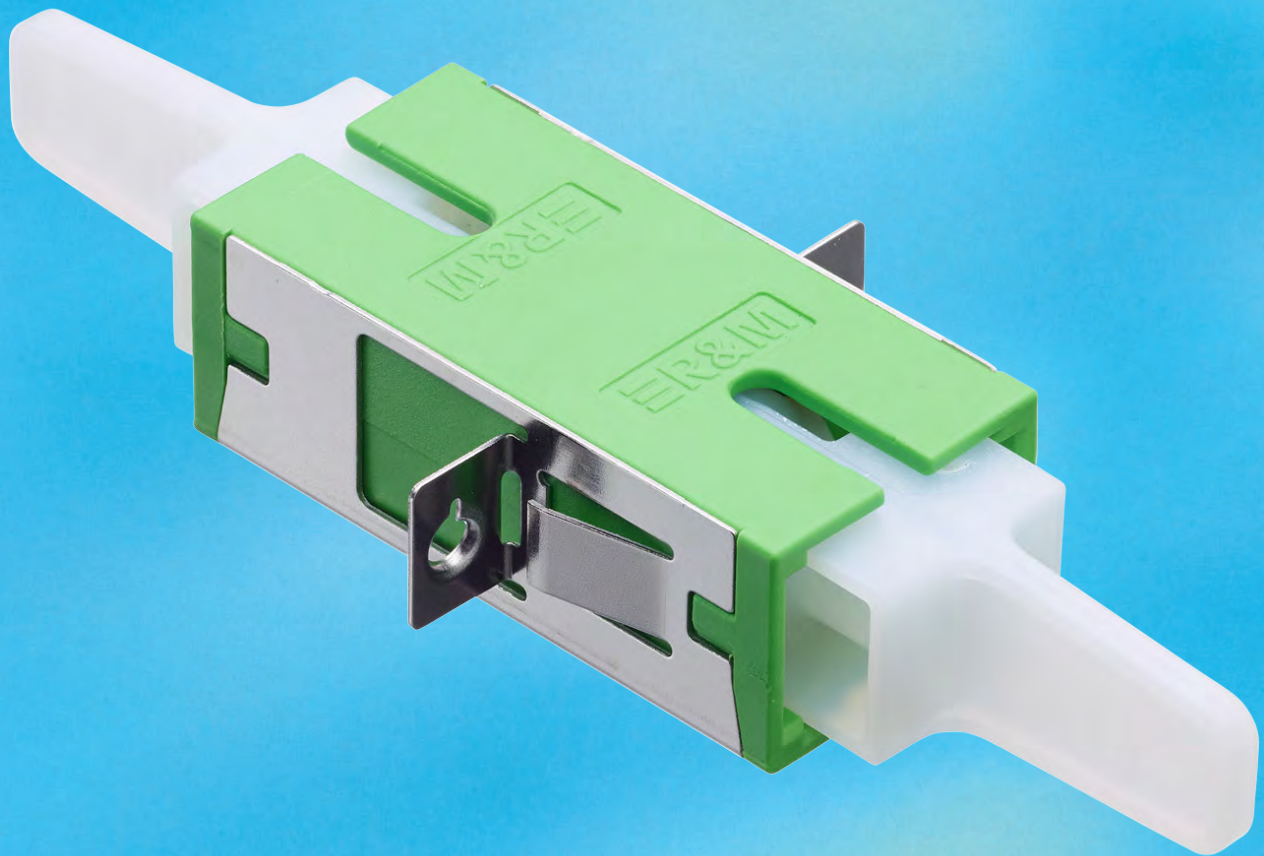
Features

Security
Laserprotection included

Performance
High power approved up to 4,5 Watts

Design
Certified by GL & UL

R&M

Connector SC, SC-RJ

Features
- Injection-molded PBT housing, UL-listed
- No different expansion coefficients thanks to the ceramic ferrule
- Same ferrule holder as for E-2000™
- Locking type: push-pull
- Connector tunable in 60° steps

Ordering Information	Description	PU	Part Number
030.5990	**Connector SC APC,** Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index). Ferrule with end-face of Ø 0.5 mm and 45° dome angle. Supplied: • Inner and outer connector housing • Ferrule holder incl. ferrule		
	SM, green, 125.2 (+05/-0) µm, 0.5 µm con	100	R847362
	SM, green, 126.0 (+1/-0) µm	100	R847363
030.6085	**Connector SC PC,** Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index). Supplied: • Inner and outer connector housing • Ferrule holder incl. ferrule		
	SM, blue, 125.2 (+0.5/-0) µm, 0.5 µm con	100	R847364
	SM, blue, 126.0 (+1/-0) µm 1.0 µm con	100	R840220
	MM, beige, 126.0 (+1/-0) µm 1.0 µm con	100	R840221
	MM, beige, 127.0 (+3/-0) µm	100	R847816
030.6081	**SC Housing Dismantle Tool** **Connector SC-RJ APC,**	1	R851105

Ordering Information	Description	PU	Part Number
 030.6072	Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index). Supplied: • Inner and outer connector housing • 2 Ferrule holders incl. ferrules **SM, green, 126.0 (+1/-0) µm**	50	R802168
 030.6073	**Connector SC-RJ PC,** Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index). Supplied: • Inner and outer connector housings • 2 Ferrule holders incl. ferrules **SM, blue, 126.0 (+1/-0) µm 1.0 µm con** **MM, beige, 127.0 (+3/-0) µm** **MM, black, 232.0 (+2/-0) µm**	50 50 50	R802165 R802162 R802164

Crimp Set

Ordering Information	Description	PU	Part Number
 090.6518	**Crimp Set E-2000™ / SC, 0.9 mm tube, short,** Colored connector boot, short version, 13.5 mm length. For tubes from Ø 0.6 - 1.2 mm. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R810593
	blue	100	R810594
	red	100	R521640
	black	100	R810595
	orange	100	R851106
	gray	100	R851107
	turquoise	100	R851108
	pink	100	R851109
	brown	100	R851110
	violet	100	R852192
	white	100	R852193
	beige	100	R852194
	yellow	100	R852195
 090.7151	**Crimp Set all Types E-2000™ / LC / SC, 1.7 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 1.4 - 1.7 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R812801
	blue	100	R812802
	red	100	R812804
	black	100	R812803
 090.7151	**Crimp Set all Types E-2000™ / LC / SC, 2.2 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 1.8 - 2.2 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R812805
	blue	100	R812806
	red	100	R812808
	black	100	R812807
	turquoise	100	R821290
	gray	100	R821291
	pink	100	R821292
	brown	100	R821293
	violet	100	R821294
	white	100	R509098
	orange	100	R816291
	yellow	100	R816292

R&M

Ordering Information	Description	PU	Part Number
090.7151	**Crimp Set all Types E-2000™ / LC / SC, 2.6 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 2.3 - 2.6 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R812809
	blue	100	R812810
	red	100	R813159
	black	100	R813158
090.7151	**Crimp Set all Types E-2000™ / LC / SC, 3.0 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 2.7 - 3.0 mm. Material sleeve: aluminum. Material boot: TPE, self extinguishing, free of halogen.		
	green	100	R813160
	blue	100	R813161
	red	100	R813163
	black	100	R813162

Ordering Information	Description	PU	Part Number
010.2382	**Duplex Clip, R&M connector SC** This clips make SC-Duplex applications possible. Color: black.	1	R306718
	Color Clip SC-RJ Connector, Color coding for SC-RJ patch cord, Fiber Guard, coding frame and Patch Guard.		
010.2983	**green**	12	R310141
	blue	12	R310143
	turquoise	12	R310146
	orange	12	R310148
	red	12	R310144
	yellow	12	R310142
	violet	12	R310147
	anthracite	12	R310145
	Mechanical Color Clip SC-RJ Connector, Color coding for SC-RJ connector. Clip mechanically coded. Can be combined with security system levels 1 and 3.		
090.2736	**code 1, red**	12	R318280
	code 2, brown	12	R318283
	code 3, yellow	12	R318294
	code 4, violet	12	R318295
	code 5, white	12	R318296
	code 6, black	12	R318297

R&M
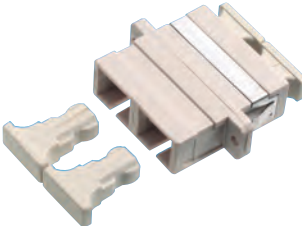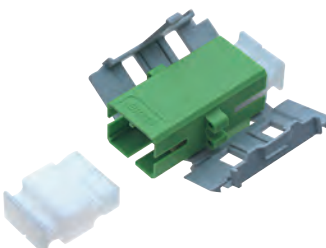
Adapter SC

Features
- Injection-molded PBT housing, UL 94 V-0 (flammability index)
- Split ceramic sleeve
- 500 mating cycles

ℹ️ Ceramic = zirconia ceramic alignment sleeve

090.7705

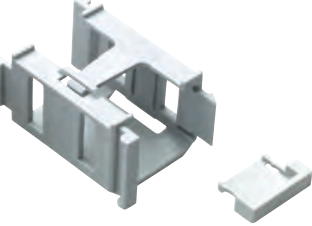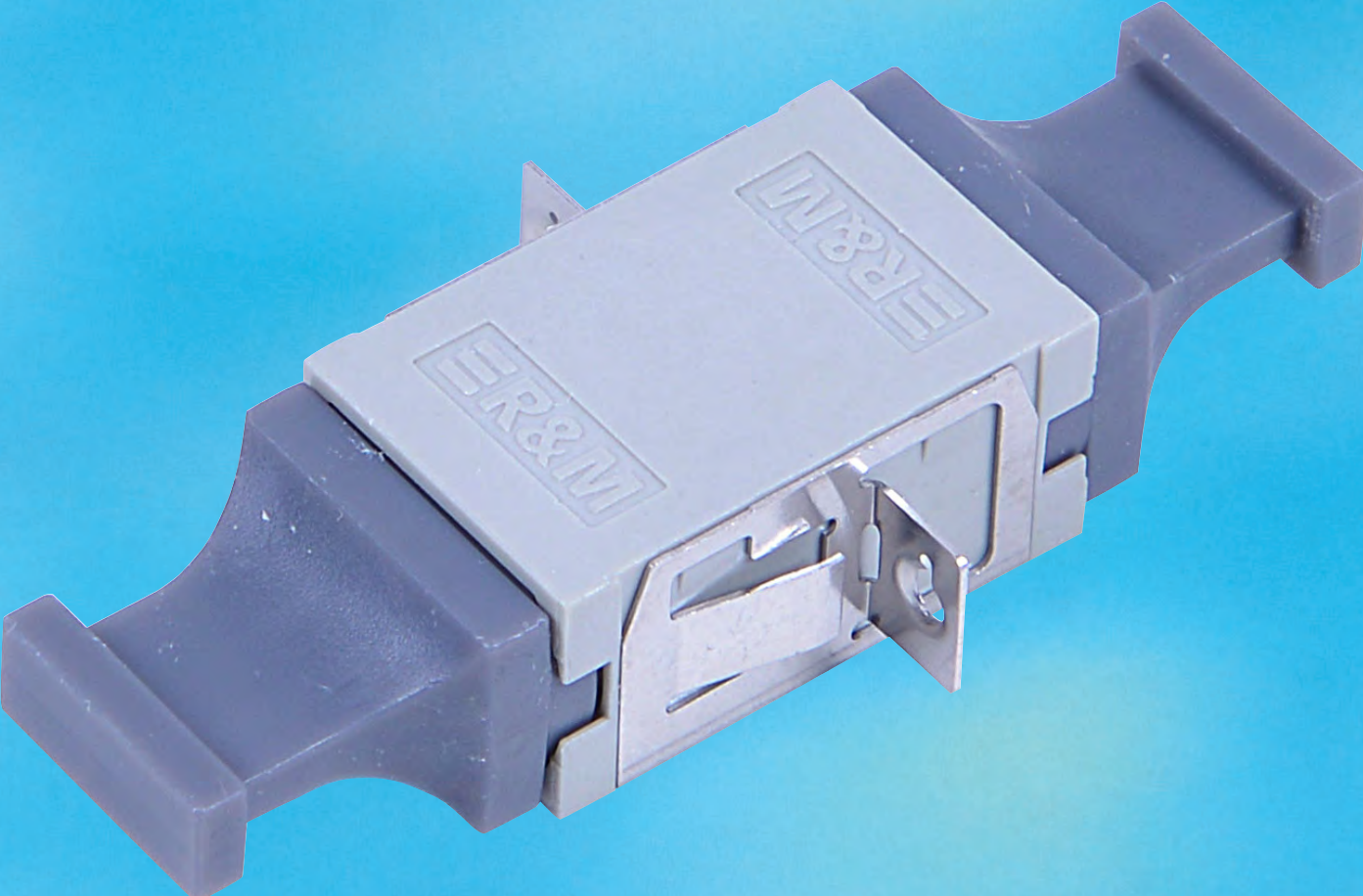| Ordering Information	Description	PU	Part Number
090.7705	**Adapter SC (screwable)** SC adapter with semi-transparent dust caps. Quick mounting clip integrated. M2 nuts pre-mounted. Supplied: • SC adapter • 2 Philips head screws M2 x 8, blue galvanized		
	APC, green, ceramic SM, B, screwable	12	R806951
	PC, blue, ceramic SM, B, screwable	12	R806952
	APC, green, ceramic SM, C, screwable	12	R804288
	PC, blue, ceramic SM, C, screwable	12	R805044
	PC, beige, ceramic MM, M, screwable	12	R806948
090.7708	**Adapter SC (flangeless)** SC adapter flangeless with semi-transparent dust caps. Quick mounting clip integrated. Optimel front plate thickness: 1.3 – 1.7 mm		
	APC, green, ceramic SM, B	12	R806949
	PC, blue, ceramic SM, B	12	R806950
	APC, green, ceramic SM, C	12	R803945
	PC, blue, ceramic SM, C	12	R804274
	PC, beige, ceramic MM, M	12	R804282
090.2929	**Universal Adapter, empty, SC/E-2000™/LC-Duplex** Universal adapter without adapters.	1	R318742
	Adapter frame «special» equipped with SC Adapter frame «special» assembled with SC Simplex adapter fitting into selected R&M Patch Panels and outlets which are designed for the mounting of RJ45 Cat. 6_A Cat. 6_A EL and Cat. 6 EL modules. Supplied: • Adapter frame special SC		
090.7866	**APC, green, ceramic SM, C**	10	R840202
	PC, blue, ceramic SM, C	10	R822672
	PC, beige, ceramic MM, M	10	R822673

Ordering Information	Description	PU	Part Number
090.2443	**Adapter SC-Duplex (screwable)** Supplied: • SC-Duplex adapter • 2 Philips head screws M2 x 8, blue galvanized • 2 mounted hexagonal nuts M2, blue galvanized **APC, green, ceramic SM, C** **PC, blue, ceramic SM, C** **PC, beige, ceramic MM, M**	 12 12 12	 R804260 R30805 R317064
090.2733	**Adapter SC-RJ (Snap-in)** Supplied: • SC-RJ adapter with semi-transparent dust caps • Snap-in frame with coding clip, gray • Installation instructions **APC, green, ceramic SM, B** **APC, green, ceramic SM, C** **PC, blue, ceramic SM, C** **PC, blue, PhBr SM, D** **PC, beige, ceramic MM, M** **PC, black, ceramic MM, M** **PC, black, PhBr MM, N**	 12 12 12 12 12 12 12	 R318279 R318278 R318276 R318275 R318274 R312695 R312775
090.2727	**Adapter SC-RJ** Supplied: • SC-RJ adapter with semi-transparent dust caps **APC, green, ceramic SM, B** **APC, green, ceramic SM, C** **PC, blue, ceramic SM, C** **PC, blue, PhBr SM, D** **PC, beige, ceramic MM, M** **PC, black, ceramic SM, C** **PC, black, PhBr MM, N**	 12 12 12 12 12 12 12	 R318265 R318264 R318263 R318262 R318261 R311754 R311753
090.2737	**Mechanical Color Pin SC-RJ Adapter,** Color coding for SC-RJ adapter. Pin mechanically coded. Can be combined with security system levels 1 and 3. **code 1, red** **code 2, brown** **code 3, yellow** **code 4, violet** **code 5, white** **code 6, black**	 12 12 12 12 12 12	 R318298 R318302 R318305 R318309 R318310 R318312
030.0308	**Dummy Plug E-2000™ / SC / LC-Duplex (13x9 mm)** For E-2000™, SC and LC-Duplex mounting holes. Dimensions cutout: 13 x 9 mm Front panel wall thickness: 1.5 mm	12	R30004-20

R&M

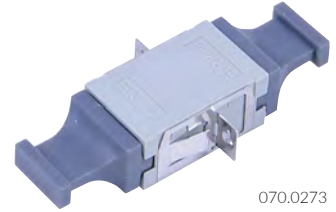| Ordering Information	Description	PU	Part Number
010.2151	**Dummy Plug SC-Duplex (34 x 9.3 mm)** For SC-Duplex mounting holes. Dimensions cutout: 26.4 x 9.8 mm Front panel wall thickness: 1.5 mm	12	R30843
090.7061	**Snap-in Blind Cover, light gray** For sheet metal cutouts of 15 x 19.5 mm in diameter. Front panel wall thickness: 1.5 and 3 mm.	10	R308708
010.2949	**Snap-in Frame for SC-RJ Adapters** Snap-in frame and coding clip, gray. Front panel wall thickness: 1.5 mm and 2.0 mm.	20	R315027

MPO Adapters

**R&M**

MPO Adapters

Features
- Injection-moulded PBT housing, UL 94 V-0 (flammability index)
- 500 mating cyles

070.0273

Ordering Information	Description	PU	Part Number
070.0272	**MPO Adapter Type A (key up – key down)** MPO adapter with dust caps. Quick mounting clip integrated. Optimal front plate thickness: 1.3 – 1.7 mm **Adapter-MPO-flangeless-A-bk**	12	R824361
070.0271	**MPO Adapter Type A (key up – key down)** MPO adapter with dust caps. Quick mounting clip integrated Supplied: • MPO Adapter • 2 head screws M2x8, blue galvanized **Adapter-MPO-screw-A-bk**	12	R824364
070.0274	**MPO Adapter Type B (key up – key up)** MPO adapter with dust caps. Quick mounting clip integrated. Optimal front plate thickness: 1.3 – 1.7 mm **Adapter-MPO-flangeless-B-gy**	12	R824363
070.0273	**MPO Adapter Type B (key up – key up)** MPO adapter with dust caps. Quick mounting clip integrated Supplied: • MPO Adapter • 2 head screws M2x8, blue galvanized **Adapter-MPO-screw-B-gy**	12	R824366
070.0270	**MPO Adapter Type A (key up – key down)** MPO adapter with dust caps. Quick mounting clip integrated. Optimal front plate thickness: 1.3 – 1.7 mm **Adapter-MPO-flangeless-A-rd**	12	R824362
070.0269	**MPO Adapter Type A (key up – key down)** MPO adapter with dust caps. Quick mounting clip integrated Supplied: • MPO Adapter • 2 head screws M2x8, blue galvanized **Adapter-MPO-screw-A-rd**	12	R824365

R&M

R&M

FC Components

R&M
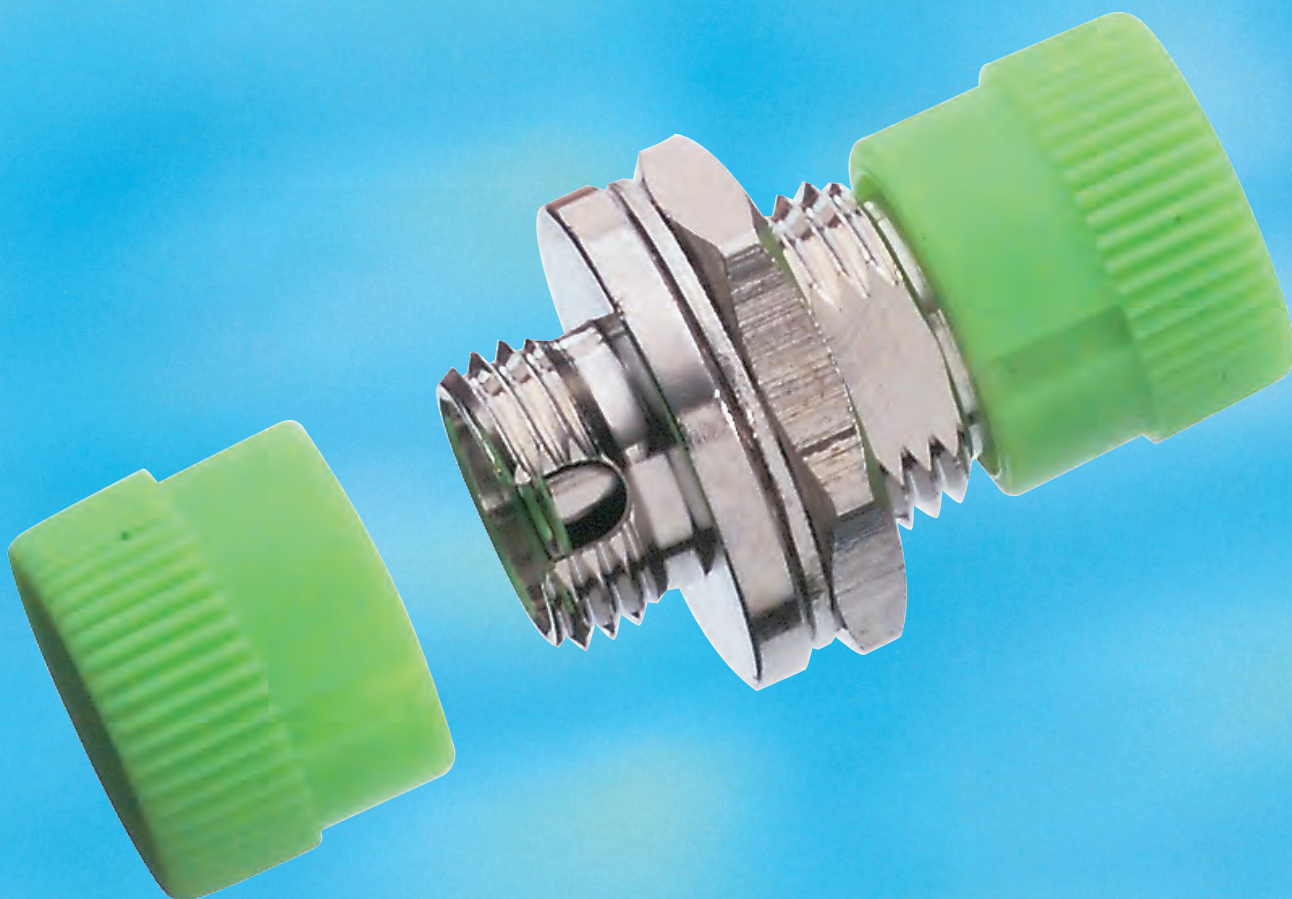
Connector and Adapter FC

Features

- Precise fullceramic ferrule
- Coupling for double-D-hole (dtype) or screwed flange (square)
- Brass adapter housing, nickel-coated
- Split zirconia ceramic sleeve
- 500 mating cycles

030.0635

Ordering Information	Description	PU	Part Number
090.6038	**Connector FC** Fully mounted connector (small key). Locking system: thread mount. Connector housing made of nickel-plated brass, rotation lock made of beryllium bronze. Ferrule with end-face of Ø 0.5 mm and 45° done angle. **APC, SM, 125.5 (+1/-0) µm**	100	R510784
090.6038	**Connector FC** Fully mounted connector (small key). Locking system: thread mount. Connector housing made of nickel-plated brass, rotation lock made of beryllium bronze. **PC, SM, 126.0 (+1/-0) µm** **PC, MM, 126.0 (+1/-0) µm**	100 100	R510783 R510782
090.6039	**Crimp Set FC, 0.9 mm tube,** Colored connector boot. For tubes from Ø 0.6 - 1.2 mm. Material boot: self extinguishing, free of halogen. **green** **blue** **black**	100 100 100	R510810 R510809 R510808
090.6039	**Crimp Set FC, 2.2 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 1.8 - 2.2 mm. Material sleeve: aluminum. Material boot: self extinguishing, free of halogen. **blue** **red** **black**	100 100 100	R510813 R510817 R510811

R&M

Ordering Information	Description	PU	Part Number
	Crimp Set FC, 3.0 mm cable,		
	Crimp sleeve and colored connector boot.		
	For cables from Ø 2.5 - 3.0 mm. Material sleeve: aluminum.		
	Material boot: self extinguishing, free of halogen.		
	green	100	R510816
	blue	100	R510814
	red	100	R510818
090.6039	**black**	100	R510812
	Adapter FC		
	Supplied:		
	• FC adapter (zirconia ceramic alignment sleeve)		
	• Hexagonal nut		
	PC/APC (wide key), ceramic SM, C, dtype	12	R30911
	PC/APC (wide key), ceramic SM, C, square	1	R311304
030.0635			
	Dummy Plug ST / FC (Ø 8.0 - 9.5 mm)	12	R30841
030.0307			

ST Components
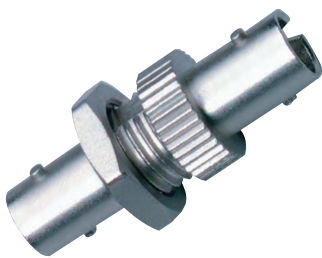
Connector and Adapter ST

Features
- Brass adapter housing
- Bayonet-type locking
- Split zirconia ceramic sleeve
- 500 mating cycles
- Coupling for double-D-hole
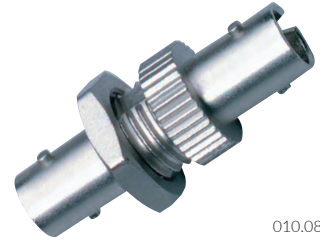
010.0800

Ordering Information	Description	PU	Part Number
090.6040	**Connector ST** Connector completely assembled. Bayonet locking type. Zinc casting connector housing, nickel-coated. **PC, SM, 126.0 (+1/-0) µm** **PC, MM, 126.0 (+1/-0) µm** **i** Connector not tunable.	 100 100	 R510786 R510785
090.6041	**Crimp Set ST, 0.9 mm tube,** Colored connector boot. For tubes from Ø 0.6 - 1.2 mm. Material boot: self extinguishing, free of halogen. **blue** **black**	 100 100	 R510820 R510819
090.6041	**Crimp Set ST, 2.2 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 1.8 - 2.2 mm. Material sleeve: aluminum. Material boot: self extinguishing, free of halogen. **blue** **red** **black**	 100 100 100	 R510823 R510852 R510821
090.6041	**Crimp Set ST, 3.0 mm cable,** Crimp sleeve and colored connector boot. For cables from Ø 2.5 - 3.0 mm. Material sleeve: aluminum. Material boot: self extinguishing, free of halogen. **blue** **red** **black**	 100 100 100	 R510824 R510826 R510822

R&M

Ordering Information	Description	PU	Part Number
 010.0800	**Adapter ST** Supplied: • ST adapter • Washer, toothed • Hexagonal nut **PC, ceramic SM / MM** **PC, PhBr SM, D** **PC, PhBr MM, N**	 12 12 12	51 R30802 R306881 R303562
 030.0307	**Dummy Plug ST / FC (Ø 8.0 - 9.5 mm)**	12	R30841

FO Field
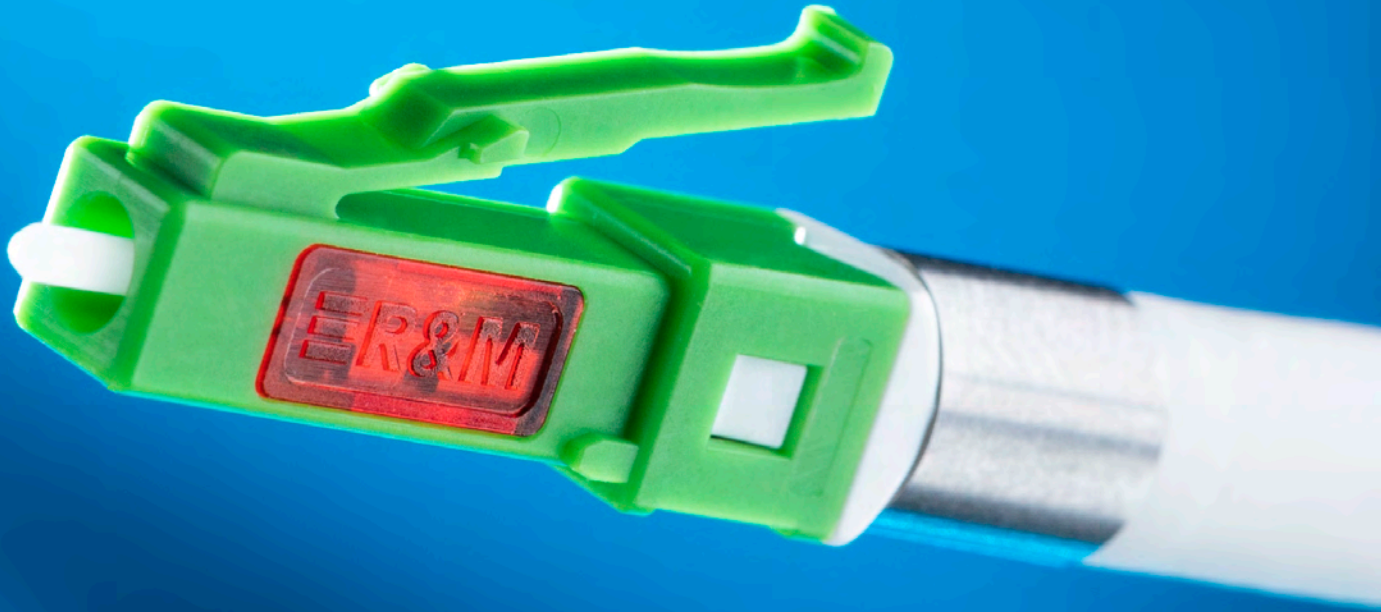
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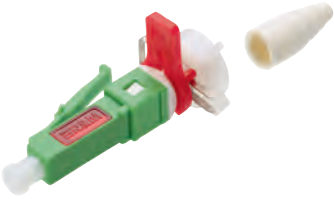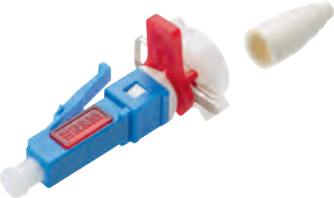
Flexibility
Cabling freedom

Efficiency
Easy mounting
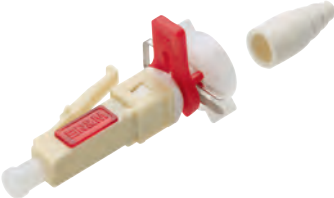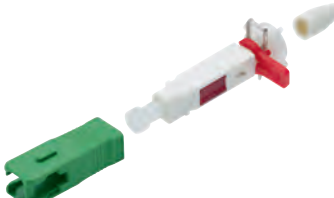
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Swiss precision
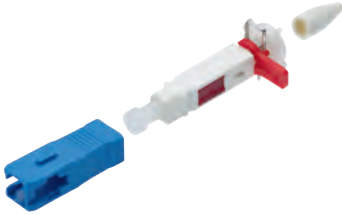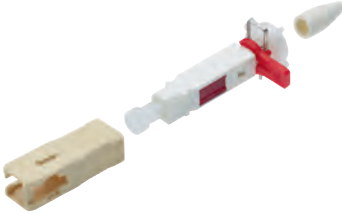
R&M

Connection Systems FO Field

Features

- Field-terminable, no polishing required
- Assembled in less than 1 minute
- Few tools required (cleaver, wire stripper)
- Highest performance (Grade C_f with SM and Grade B_{mf} with MM)
- Can be reassembled five times
- One connector type for fibers of 250µm up to cables of 3.0mm
- Simple function test

090.6830

Ordering Information	Description	PU	Part Number
090.7336	**FO Field LC, Grade C_f, APC, green,** Field-terminable LC/APC connector, Grade C_f/1, individual packaged incl. stripping chart and QR code with installation instructions. Color green, strain relief pigtail white.		
	G657.A fiber stub, 250µm fibers up to 0.9mm fibers	1	R846317
	G652.D fiber stub, 250µm fibers up to 0.9mm fibers	1	R846319
090.7341	**FO Field LC, Grade C_f, PC, blue,** Field-terminable LC/PC connector, Grade C_f/2, individual packaged incl. stripping chart and QR code with installation instructions. Color blue, strain relief pigtail white.		
	G657.A fiber stub, 250µm fibers up to 0.9mm fibers	1	R846320
	G652.D fiber stub, 250µm fibers up to 0.9mm fibers	1	R846321
090.7344	**FO Field LC, Grade B_{mf}, PC, beige,** Field-terminable LC/PC connector, Grade B_{mf}/3, individual packaged incl. stripping chart and QR code with installation instructions. Color beige, strain relief pigtail white.		
	OM4 fiber stub, 250µm fibers up to 0.9mm fibers	1	R846322
090.7337	**FO Field SC, Grade C_f, APC, green,** Field-terminable SC/APC connector, Grade C_f/1, individual packaged incl. stripping chart and QR code with installation instructions. Color green, strain relief pigtail white.		
	G657.A fiber stub, 250µm fibers up to 0.9mm fibers	1	R846323
	G652.D fiber stub, 250µm fibers up to 0.9mm fibers	1	R846324

R&M

Ordering Information	Description	PU	Part Number
090.7342	**FO Field SC, Grade C_f, PC, blue,** Field-terminable SC/PC connector, Grade C_f/2, individual packaged incl. stripping chart and QR code with installation instructions. Color blue, strain relief pigtail white. **G657.A fiber stub, 250µm fibers up to 0.9mm fibers** **G652.D fiber stub, 250µm fibers up to 0.9mm fibers**	 1 1	 R846325 R846326
090.7343	**FO Field SC, Grade B_{mf}, PC, beige,** Field-terminable SC/PC connector, Grade B_{mf}/3, individual packaged incl. stripping chart and QR code with installation instructions. Color beige, strain relief pigtail white. **OM4 fiber stub, 250µm fibers up to 0.9mm fibers**	 1	 R846327

Crimp & Cleave

Features

Efficiancy
Assembled in less then 3 min

Reliable
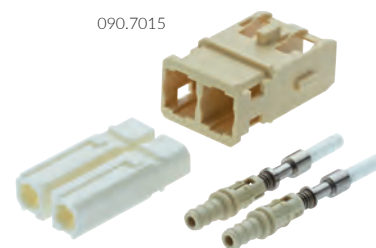Fullfills «Extreme Environment»
requirement

Flexibility
Easy to learn, intuitiv assembly steps

R&M

Connector PCF Crimp and Cleave

090.7015

Features
- Field-terminable, no polishing required
- Assembled in less than 3 minutes
- Few tools required (cleaver and wire stripper)
- Perfect point-to-point connectivity
- Extremly durable (Category extreme environment)
- All cable types up to diameter of 3.2 mm

Ordering Information	Description	PU	Part Number
090.7017	**Connector PCF Crimp and Cleave, E-2000™** Field-terminable E-2000™/PC connector, grade Em. Color beige. Supplied: • Connector housings with metal dust shutter • Ferrule holder incl. ferrule **PC, MM, beige, 232.0 (+2/-0) µm**	50	R810635
090.7016	**Connector PCF Crimp and Cleave, SC** Field-terminable SC/PC connector, grade Em. Color beige. Supplied: • Connector housings and plastic dust cover • Ferrule holder incl. ferrule **PC, MM, beige, 232.0 (+2/-0) µm** **MM, beige, 232.0 (+2/-0) µm**	50 100	R810633 R802160
090.7015	**Connector PCF Crimp and Cleave, SC-RJ** Field-terminable SC-RJ/PC connector, grade Em. Color beige. Supplied: • Connector housings and plastic dust covers • Ferrule holder incl. ferrule **PC, MM, beige, 232.0 (+2/-0) µm**	25	R810634
090.7153	**Tool box PCF Crimp and Cleave, 2.5mm** Assembling tool for PCF crimp and cleave connectors based on 2.5mm ferrule (E-2000, SC, SC-RJ, SC Duplex). Without connector.	1	R810636
010.2382	**Duplex Clip, R&M connector SC** This clips make SC-Duplex applications possible. Color: black.	1	R306718

R&M

Tools & Testing Equipment
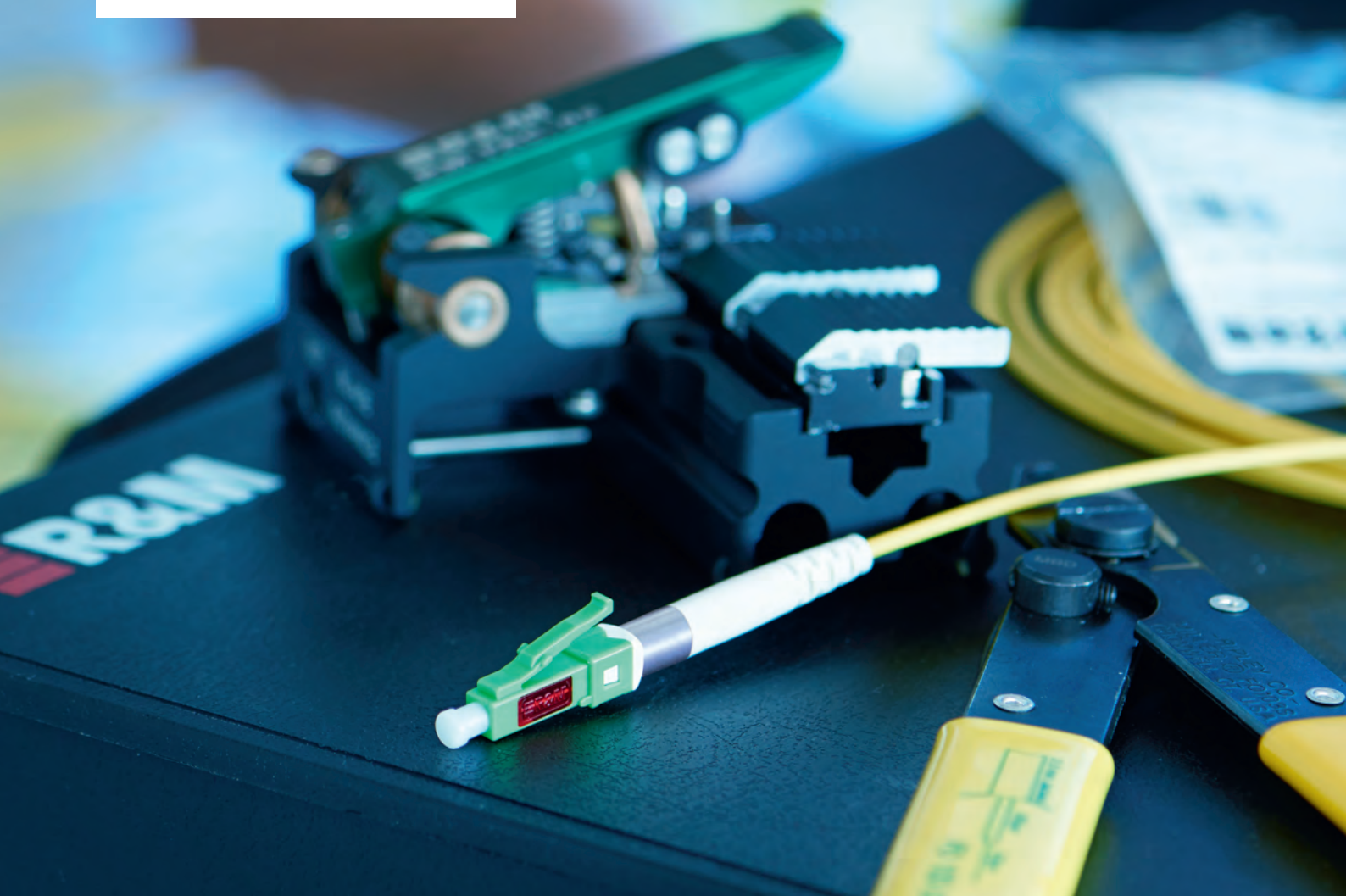
Features

Security
Minimum excentricity

Stability
Worst-case measurement thanks to fiber position in lower sector (singlemode)

Service
Test protocol with exact fiber position

R&M

Reference Cords

Features

- Minimum excentricity
- Long term durability due to zirconia (ceramic) ferrule
- Worst-case measurement thanks to fiber position in lower sector (singlemode)
- Maximum repeatability
- Test protocol with exact fiber position

i Other reference cord types on request.

Ordering Information	Description	PU	Part Number

Reference Cord E-2000™ APC, R/1 -

This reference connector is characterized by a highly precise fiber centricity of G = 0.30µm maximum. To guarantee worst-case measurement, the fibers are turned downward at an angle of ±30°. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.

Supplied:
- Reference cord, 3 m
- Test protocol, incl. IL and RL at 1310nm + 1550nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

Description	PU	Part Number
E-2000™ APC, B/1, G.652.D, 3 m	1	R804250
FC APC, C/1, G.652.D, 3 m	1	R804238
FC PC, C/2, G.652.D, 3 m	1	R804232
SC APC, B/1, G.652.D, 3 m	1	R804244

Reference Cord E-2000™ PC, R/2 -

This reference connector is characterized by a highly precise fiber centricity of G = 0.30µm maximum. To guarantee worst-case measurement, the fibers are turned downward at an angle of ±30°. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.

Supplied:
- Reference cord, 3 m
- Test protocol, incl. IL and RL at 1310nm + 1550nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

Description	PU	Part Number
E-2000™ APC, B/1, G.652.D, 3 m	1	R804251
FC APC, C/1, G.652.D, 3 m	1	R804239
FC PC, C/2, G.652.D, 3 m	1	R804233
SC APC, B/1, G.652.D, 3 m	1	R804245

≡R&M

Ordering Information	Description	PU	Part Number

Reference Cord E-2000™ PC, R/2 -

This reference connector is characterized by a highly precise fiber centricity of G = 1.00µm maximum. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.
Supplied:
- Reference cord, 3 m
- Test protocol, incl. IL and RL at 850nm + 1300nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

FC PC, Bm/3, OM3, 3 m		1	R804262

Reference Cord LC APC, R/1 -

This reference connector is characterized by a highly precise fiber centricity of G = 0.30µm maximum. To guarantee worst-case measurement, the fibers are turned downward at an angle of ±30°. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.
Supplied:
- Reference cord, 3 m
- Test protocol, incl. IL and RL at 1310nm + 1550nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

	PU	Part Number
E-2000™ APC, B/1, G.652.D, 3 m	1	R804255
FC APC, C/1, G.652.D, 3 m	1	R804242
FC PC, C/2, G.652.D, 3 m	1	R804236
SC APC, B/1, G.652.D, 3 m	1	R804248

Reference Cord LC PC, R/2 -

This reference connector is characterized by a highly precise fiber centricity of G = 0.30µm maximum. To guarantee worst-case measurement, the fibers are turned downward at an angle of ±30°. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.
Supplied:
- Reference cord, 3 m
- Test protocol, incl. IL and RL at 1310nm + 1550nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

	PU	Part Number
E-2000™ APC, B/1, G.652.D, 3 m	1	R804256
FC APC, C/1, G.652.D, 3 m	1	R804243
FC PC, C/2, G.652.D, 3 m	1	R804237
SC APC, B/1, G.652.D, 3 m	1	R804249

Ordering Information	Description	PU	Part Number

Reference Cord SC PC, R/2 -

This reference connector is characterized by a highly precise fiber centricity of G = 0.30µm maximum. To guarantee worst-case measurement, the fibers are turned downward at an angle of ±30°. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.

Supplied:

- Reference cord, 3 m
- Test protocol, incl. IL and RL at 1310nm + 1550nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

Description	PU	Part Number
E-2000™ APC, B/1, G.652.D, 3 m	1	R804254
FC APC, C/1, G.652.D, 3 m	1	R804241
FC PC, C/2, G.652.D, 3 m	1	R804235
SC APC, B/1, G.652.D, 3 m	1	R804247

Reference Cord SC PC, R/2 -

This reference connector is characterized by a highly precise fiber centricity of G = 1.00µm maximum. This means that an optimum measuring precision is ensured, giving you and your customers maximum reliability for each-to-each values of the measured connections.

Supplied:

- Reference cord, 3 m
- Test protocol, incl. IL and RL at 850nm + 1300nm, fiber position
- Interferometry test protocol
- Box, black

090.6636

Description	PU	Part Number
FC PC, Bm/3, OM3, 3 m	1	R804263

R&M

Launch fiber

Features
- Long service life
- Latest fiber types
- Singlemode and multimode
- High attenuation accuracy
- Suitable for high-power applications
- Easy handling
- High return loss

> **i** Other launch fiber types on request.

Ordering Information	Description	PU	Part Number
090.6868	**Launch Fiber** Launch fibers are delivered in a protective transportation box. Mode type: E9/125/250µm. Box dimensions: 195 x 160 x 32 mm. Supplied: • Transportation box • Launch fiber 1000 m • Test protocol, incl. IL and RL at 1310nm + 1550nm, fiber position • Interferometry test protocol		
	E-2000™ APC, R/1 - FC PC, C/2, G.652.D, 1000 m	1	R807761
	E-2000™ PC, R/2 - FC PC, C/2, G.652.D, 1000 m	1	R807760
	LC PC, R/2 - FC PC, C/2, G.652.D, 1000 m	1	R809805
	SC PC, R/2 - FC PC, C/2, G.652.D, 1000 m	1	R807762

> **i** Attenuation value in protocols include connector and fiber loss.

Testing Equipment

Ordering Information	Description	PU	Part Number
090.5143	**Red Light Source,** Red light source (wavelength 640 nm) for 2.5 + 1.25 mm ferrules for connectors E-2000™, FC, SC, ST, LC and MU. Supplied: • Red light source • Adapter for ferrule 1.25 mm • Batteries • Case		
	2.5+1.25 mm ferrules	1	R504313
	ℹ Laser power 0.5 mW / -3dBm for approximately 3 km fiber length.		
090.2960	**Service Adapter E-2000™** Simplifies the cleaning of the E-2000™ connector. Plugging the adapter in automatically opens the laser dust cover, releasing the ferrule.	5	R316625

R&M

Tool Kit for FO Field

Features
- Easy handling
- Light and compact design
- Power supply independent

Ordering Information	Description	PU	Part Number
090.7160	**Tool Kit FO Field** Assembling tool for connector FO Field. Supplied: • Tool case • Fiber fixation tool • Adapter for red light source reduction 2.5mm to 1.25mm • Adapter 2.5mm • Adapter 1.25mm • Red light source 650nm, 0.5mW • Dual hole fiber stripper • Stripping tool 0.6 - 2.6mm • Kevlar scissor (R810638 • Bin for fiber piece • Cleaning wipes • Fiber marker, black • Patch cord OM4, SC PC to LC PC, 3m • Patch cord OS2, SC PC to LC PC, 3m • Manual FO Field pigtail and patch cord	1	R810212 R812786 R812784 R812785 R504313 R813813 R812543 R813284 R813285

090.7159   090.5143

090.7163   090.7154

ℹ️ Without cleaver.

090.7161	**Fiber Cleaver 8°** Novel 8° fiber cleaver from R&M for angled fiber connections. Designed for 10'000 cleaves (10 positions à 1'000 cleaves). Not suitable for fusion splicing!	1	R810207

Tools for PCF Crimp and Cleave Connectors

Features
- Easy handling
- 2 ferrules ready in less than 2 minutes
- Extremly durable (Category extreme environment)
- Power supply independent
- Glueless assembling, fiber fixation by clamping (crimp) and fiber end cleaving
- Suitable for SC Duplex, SC, SC-RJ and E-2000™ connector family

| Ordering Information	Description	PU	Part Number
090.7153 090.7156 090.7154 090.7157 090.7155	**Tool box PCF 2.5mm Crimp and Cleave** Assembling tool for connector crimp and cleave PCF. Supplied: • Tool box • Fiber cleaver • Stripping tool 0.6 - 2.6mm • Kevlar scissors • Crimping tool • Crimp die E-2000™/LC/SC-PCF crimp and cleave (R&M ferrule holder) • Fiber stripper 230µm • Assembly instructions	1	R810636 R813172 R812543 R810638 R316697 R803941 R812532
090.2652	**Crimping Tool** Supplied: • Crimping tool (without crimp dies)	1	R316697
090.2651	**Crimp Die,** **E-2000™/LC/SC (R&M ferrule holder)** **E-2000™/LC/SC-PCF crimp&cleave (R&M ferrule holder)** **LC** **ST** **SC / FC** **IP67 (800N)**	 1 1 1 1 1 1	 R316696 R803941 R316720 R316721 R316722 R316770

R&M

Cleaning Kit Case

Studies have shown that 80 to 90 percent of all transmission problems in optical networks are caused by dirty connectors. As a rule, every connector must be checked and cleaned if necessary, before it is plugged in. The same applies to new and unused patch cords. This cleaning kit has been specifically designed for network technicians. The tools it contains can be used to clean and check all standard connector types.

Ordering Information	Description	PU	Part Number
090.2924	**Cleaning Kit Case FO** Supplied: • Connector microscope, 200x magnification, micro adapters 1.25 mm and 2.5 mm (PC/APC), service adapter for E-2000™ connectors • Cletop dry cleaning cassette • Isopropyl alcohol dispenser, empty • Cleaning wipes (10x10 cm) • Ferrule Mate, 1.25 mm, to clean connectors directly at the patch panel (LC) • Ferrule Mate, 2.5 mm, to clean connectors directly at the patch panel (ST, SC, FC, E-2000™)	1	R319903 R316625
090.2960			

ℹ️ Due to export restrictions we do not sell any alcohol. For cleaning purpose please use Isopropyl-Alcohol 99,7% which can be bought in any drug store / pharmacie.

	Ferrule Mate, Replacement Ferrule Mate for the FO cleaning kit case. To clean connectors (300 - 600x) directly at the patch panel.		
090.2927	**1.25 mm, for LC** **2.50 mm, for E-2000™/FC/SC/ST**	1 1	R319901 R319902

090.6685	**IBC Brand Cleaner, MPO in adapters** To clean of MPO connector in adapter.	1	R803932

R&M

Cleaning Kit Case

Ordering Information	Description	PU	Part Number
090.6686	**Reel Cleaner, MPO connectors** Designed for cleaning of MPO-male, also for other FO connectors usable.	1	R803931
090.6687	**Reel Cleaner Spare Cleaning Tabes , 6x** Spare cleaning tapes for the reel cleaner MPO-male.	1	R803933

R&M

Assembled Cables
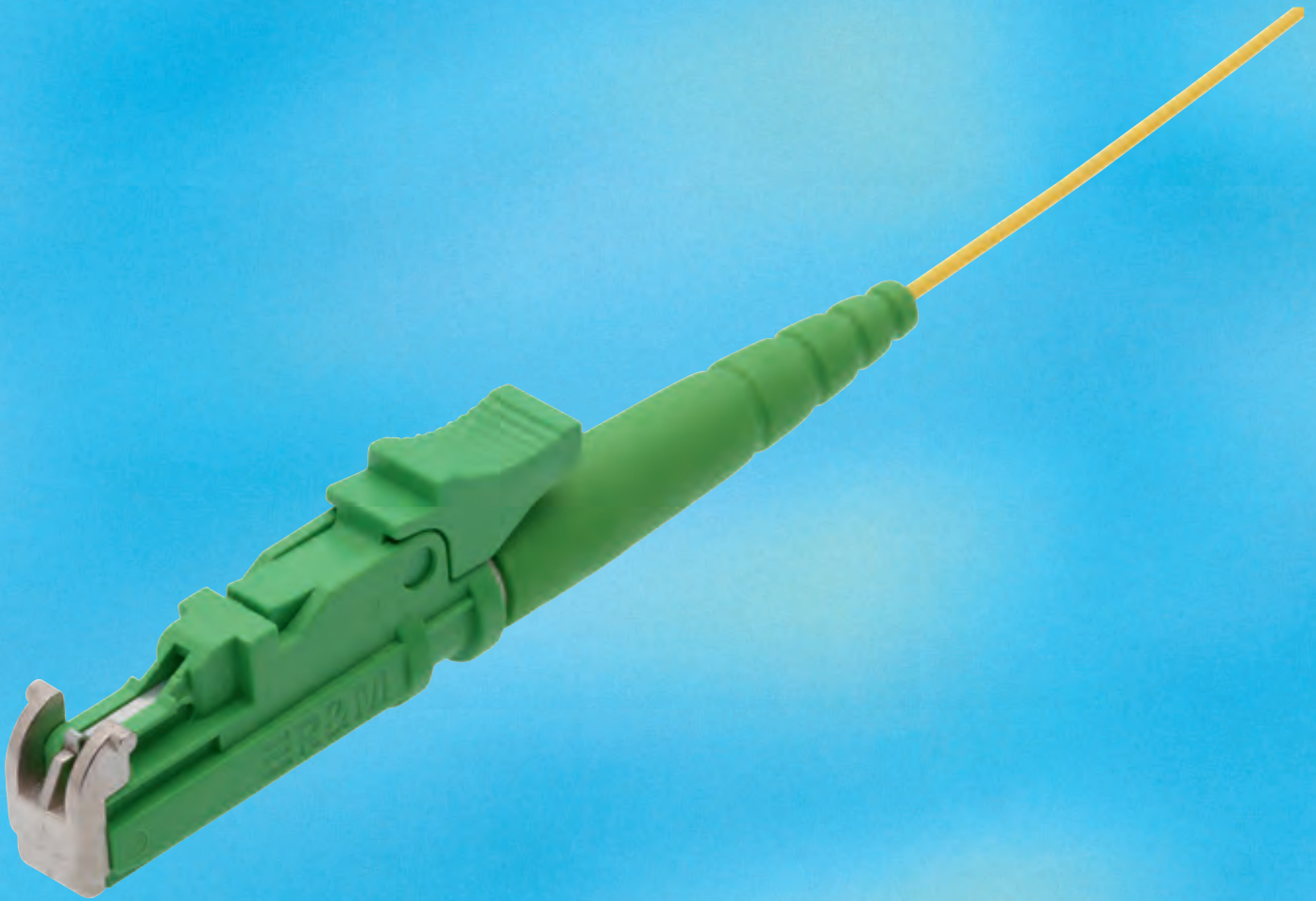
Features

Performance
Fully integrated IEC 61753 «each-to-each» performance

Quality
100% factory tested

Reliable
Long service life, periodical testing of all mechanical and thermal parameters

R&M

Pigtails E-2000™

Features

- Integrated spring-loaded shutter for dust and scratching protection
- Locking type latched push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index)
- Semi-tight buffer Ø 0.9 mm one side fitted with E-2000™ connector

Ordering Information	Description	PU	Part Number
090.7265	**Pigtail E-2000™ APC, green/green,** Pigtail-set with 12 different tube/fiber colors: yellow, green, blue, red, black, orange, gray, turquoise, pink, brown, violet and white. **G.652.D 12-colors, C/1, 2.5 m**	1	R809361
090.7265	**Pigtail E-2000™ APC, green/green,** **G.652.D yellow, C/1, 2.5 m**	12	R30966
030.0643	**Pigtail E-2000™** **PC, blue/blue, G.652.D yellow, C/2, 2.5 m**	12	R30964
	PC, beige/turquoise, OM4 turquoise, Am/2, 2.5 m	12	R812513
	PC, beige/turquoise, OM4 turquoise, Bm/3, 2.5 m	12	R802914
	PC, beige/turquoise, OM3 turquoise, Am/2, 2.5 m	12	R812512
	PC, beige/turquoise, OM3 turquoise, Bm/3, 2.5 m	12	R802915

R&M

Pigtails LC

Features
- Compact design (SFF). 1.25 mm ferrule technology
- Locking type latched push-pull
- Semi-tight buffer Ø 0.9 mm one side fitted with LC connector

Ordering Information	Description	PU	Part Number
090.6516	**Pigtail LC APC, green,** **G.652.D yellow, C/1, 2.5 m**	12	R803524
090.6515	**Pigtail LC PC, beige,** **OM4 turquoise, Am/2, 2.5 m** **OM4 turquoise, Bm/3, 2.5 m** **OM3 turquoise, Am/2, 2.5 m** **OM3 turquoise, Bm/3, 2.5 m**	12 12 12 12	R812517 R803549 R812516 R803548

Pigtails SC

Features
- Locking type push-pull
- Injection-molded PBT housing, UL-listed
- Semi-tight buffer (PA/PBT) with strip ability ≥ 1.5 m

Ordering Information	Description	PU	Part Number
	Pigtail SC		
	APC, green, G.652.D yellow, C/1, 2.5 m	12	R31015
	PC, blue, G.652.D yellow, C/2, 2.5 m	12	R31014
	PC, beige, OM4 turquoise, Am/2, 2.5 m	12	R812515
090.7290	**PC, beige, OM4 turquoise, Bm/3, 2.5 m**	12	R802912
	PC, beige, OM3 turquoise, Am/2, 2.5 m	12	R812514
	PC, beige, OM3 turquoise, Bm/3, 2.5 m	12	R307388

R&M

Patch Cords E-2000™

Features

- The connector housing fully protects the ferrule against dust, dirt and scratching
- Integrated spring-loaded shutters for dust and scratching protection
- LSZH cable sheath
- Locking type latched push-pull
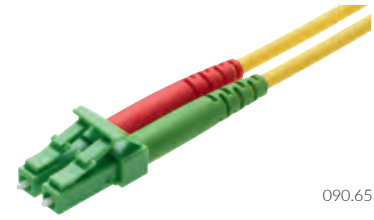- Injection-molded PBT housing, UL-listed

i   Different lengths and fiber types on request.

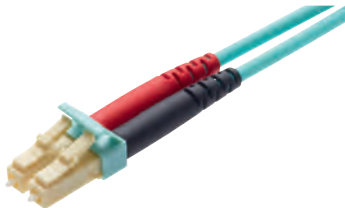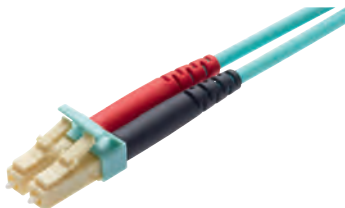| Ordering Information	Description	PU	Part Number
	Patch Cord E-2000™ APC - E-2000™ APC, green/green, Both sides fitted with one E-2000™ APC 8° connector. Connector color: green. Lever color: green. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Ø 3.0 mm, yellow.		
090.6741	**G.652.D, C/1, Ø 3.0mm, 2 m**	1	R30979
	G.652.D, C/1, Ø 3.0mm, 3 m	1	R30980
	G.652.D, C/1, Ø 3.0mm, 5 m	1	R30982
	Patch Cord E-2000™ PC - E-2000™ PC, blue/blue, Both sides fitted with one E-2000™ PC connector. Connector color: blue. Lever color: blue. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Ø 3.0 mm, yellow.		
090.6742	**G.652.D, C/2, Ø 3.0mm, 2 m**	1	R30969
	G.652.D, C/2, Ø 3.0mm, 3 m	1	R30970
	G.652.D, C/2, Ø 3.0mm, 5 m	1	R30972

Patch Cords LC-Duplex

Features
- Compact design (SFF)
- 1.25 mm ferrule technology
- Locking type latched push-pull
- LSZH cable sheath
- UL-listed

090.6511

i   Different lengths and fiber types on request.

Ordering Information	Description	PU	Part Number
090.6508	**Patch Cord LC-Duplex PC - LC-Duplex PC, beige/turquoise,** Both sides fitted with LC-Duplex PC connector. Connector color: beige. Lever color: turquoise. Fiber: MM G50/125 (OM3). Cable: F8 2.0x4.1 mm, turquoise.		
	OM3, Bm/3, F8 2.0x4.1mm, 1 m	1	R323063
	OM3, Bm/3, F8 2.0x4.1mm, 2 m	1	R323064
	OM3, Bm/3, F8 2.0x4.1mm, 3 m	1	R323065
	OM3, Bm/3, F8 2.0x4.1mm, 5 m	1	R323066
	OM3, Bm/3, F8 2.0x4.1mm, 10 m	1	R802190
090.6508	**Patch Cord LC-Duplex PC - LC-Duplex PC, beige/turquoise,** Both sides fitted with LC-Duplex PC connector. Connector color: beige. Lever color: turquoise. Fiber: MM G50/125 (OM4), bend-optimized. Cable: F8 2.0x4.1 mm, turquoise.		
	OM4, Bm/3, F8 2.0x4.1mm, 1 m	1	R802250
	OM4, Bm/3, F8 2.0x4.1mm, 2 m	1	R802251
	OM4, Bm/3, F8 2.0x4.1mm, 3 m	1	R802252
	OM4, Bm/3, F8 2.0x4.1mm, 5 m	1	R802253
	OM4, Bm/3, F8 2.0x4.1mm, 10 m	1	R805239

R&M

Patch Cords, SC

Features
- LSZH cable sheath
- Locking type push-pull
- Injection-molded PBT housing, UL-listed

[i] Different lengths and fiber types on request.

Ordering Information	Description	PU	Part Number
090.2360	**Patch Cord SC APC - SC APC, green,** Both sides fitted with SC APC 8° connector. Connector color: green. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Ø 3.0 mm, yellow.		
	G.652.D, C/1, Ø 3.0mm, 2 m	1	R31026
	G.652.D, C/1, Ø 3.0mm, 3 m	1	R31027
	G.652.D, C/1, Ø 3.0mm, 5 m	1	R31029
	G.652.D, C/1, Ø 3.0mm, 10 m	1	R301449
090.2360	**Patch Cord SC APC - SC APC, green,** Both sides fitted with SC APC 8° connector. Connector color: green. Fiber: SM E9/125 G.652.D (OS1, OS2). Cable: Ø 3.0 mm, yellow..		

Passive Network Components
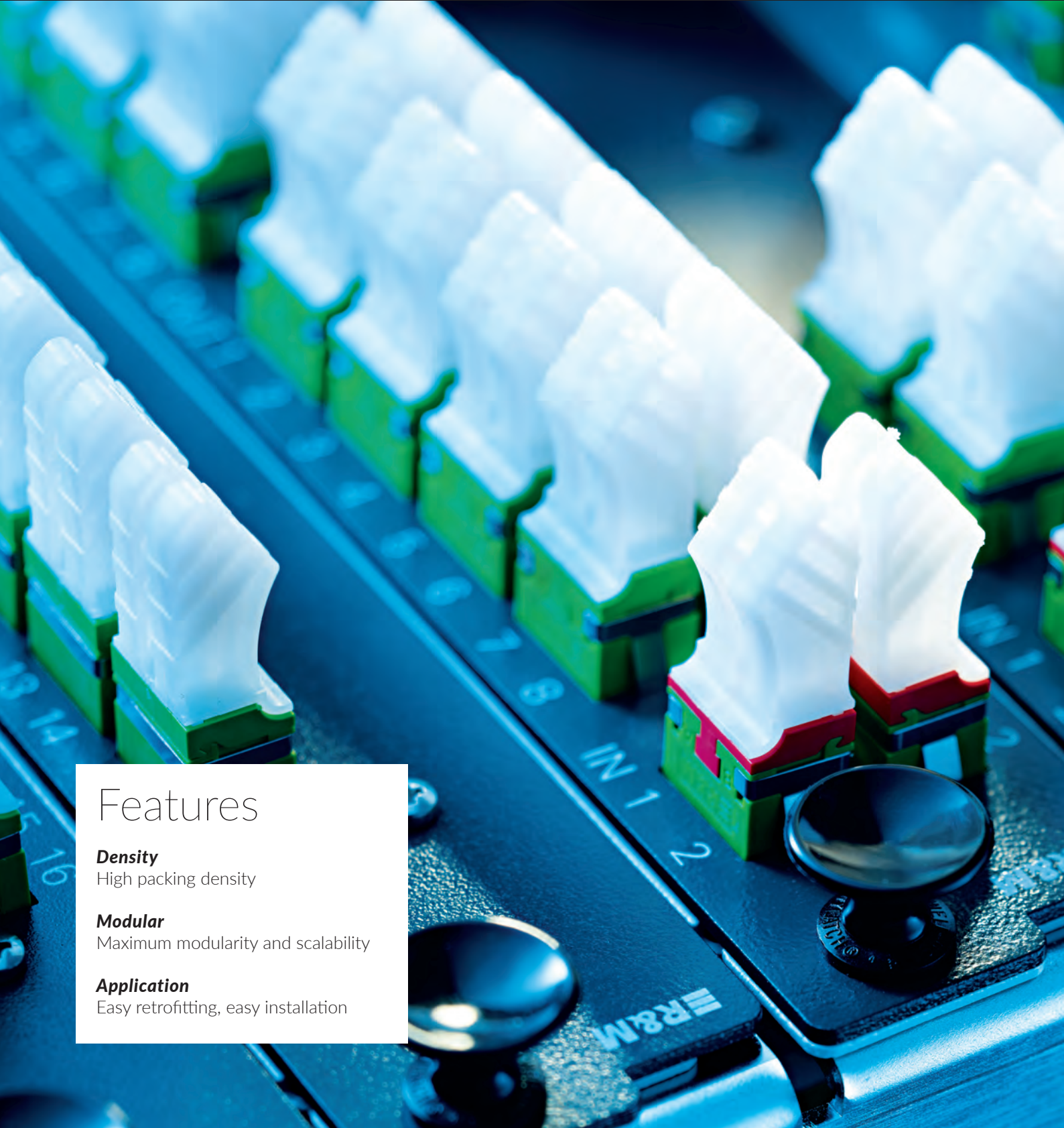
Features

Density
High packing density

Modular
Maximum modularity and scalability

Application
Easy retrofitting, easy installation

R&M

Passive Network Components

Scope of supply
- PLC splitter pre-assembled, Test report (100% tested)
- Available with E-2000, SC and LC duplex, other connectors on request

030.5613

Performance Specifications:

Port configuration	1x4	1x8	1x16	1x32	1x64
Mode type	SM 9/125µm (E9)				
Operating Wavelength	1260-1650nm				
Max. Insertion Loss@1310nm and 1550nm	≤ 7.0dB	≤ 10.4dB	≤ 13.5dB	≤ 17.0dB	≤ 20.5dB
Max. Insertion Loss@1260nm and 1650nm	≤ 7.4dB	≤ 10.8dB	≤ 14.0dB	≤ 17.4dB	≤ 21.0dB
Uniformity	≤ 0.8dB	≤ 1.0dB	≤ 1.3dB	≤ 1.5dB	≤1.8dB
Polarization Dependent Loss	≤ 0.2dB		≤ 0.3dB		≤0.4dB
Directivity	≥ 55dB				
Reflectance	≥ 50dB				
Operating Temperature	-40°C~+85°C				
Storage Temperature	-40°C~+85°C				
Package Dimension 250µm fiber	40(L)x4.0(W)x4.0(H)mm		45(L)x5.0(W)x4.0(H)mm	60(L)x7.0(W)x4.0(H)mm	60(L)x12.0(W)x4.0(H)mm
Package Dimension 0.9mm loose tube	60(L)x7(W)x4(H) mm				

Performance Specifications:

Port configuration	2x4	2x8	2x16	2x32	2x64
Mode type	SM 9/125µm (E9)				
Operating Wavelength	1260-1650nm				
Max. Insertion Loss@1310nm and 1550nm	≤ 7.5dB	≤ 10.8dB	≤ 13.8dB	≤ 17.5dB	≤ 21.5dB
Max. Insertion Loss@1260nm and 1650nm	≤ 7.9dB	≤ 11.4dB	≤ 14.7dB	≤ 17.9dB	≤ 22.0dB
Uniformity	≤ 1.5dB		≤ 2.0dB	≤ 2.5dB	≤3.0dB
Polarization Dependent Loss	≤ 0.3dB		≤ 0.4dB		≤0.5dB
Directivity	≥ 55dB				
Reflectance	≥ 50dB				
Operating Temperature	-40°C~+85°C				
Storage Temperature	-40°C~+85°C				
Package Dimension 250µm fiber	45(L)x5.0(W)x4.0(H)mm		60(L)x7.0(W)x4.0(H)mm	60(L)x7.0(W)x4.0(H)mm	60(L)x12.0(W)x4.0(H)mm
Package Dimension 0.9mm loose tube	70(L)x7(W)x4(H)mm				

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Fibermanagement Products
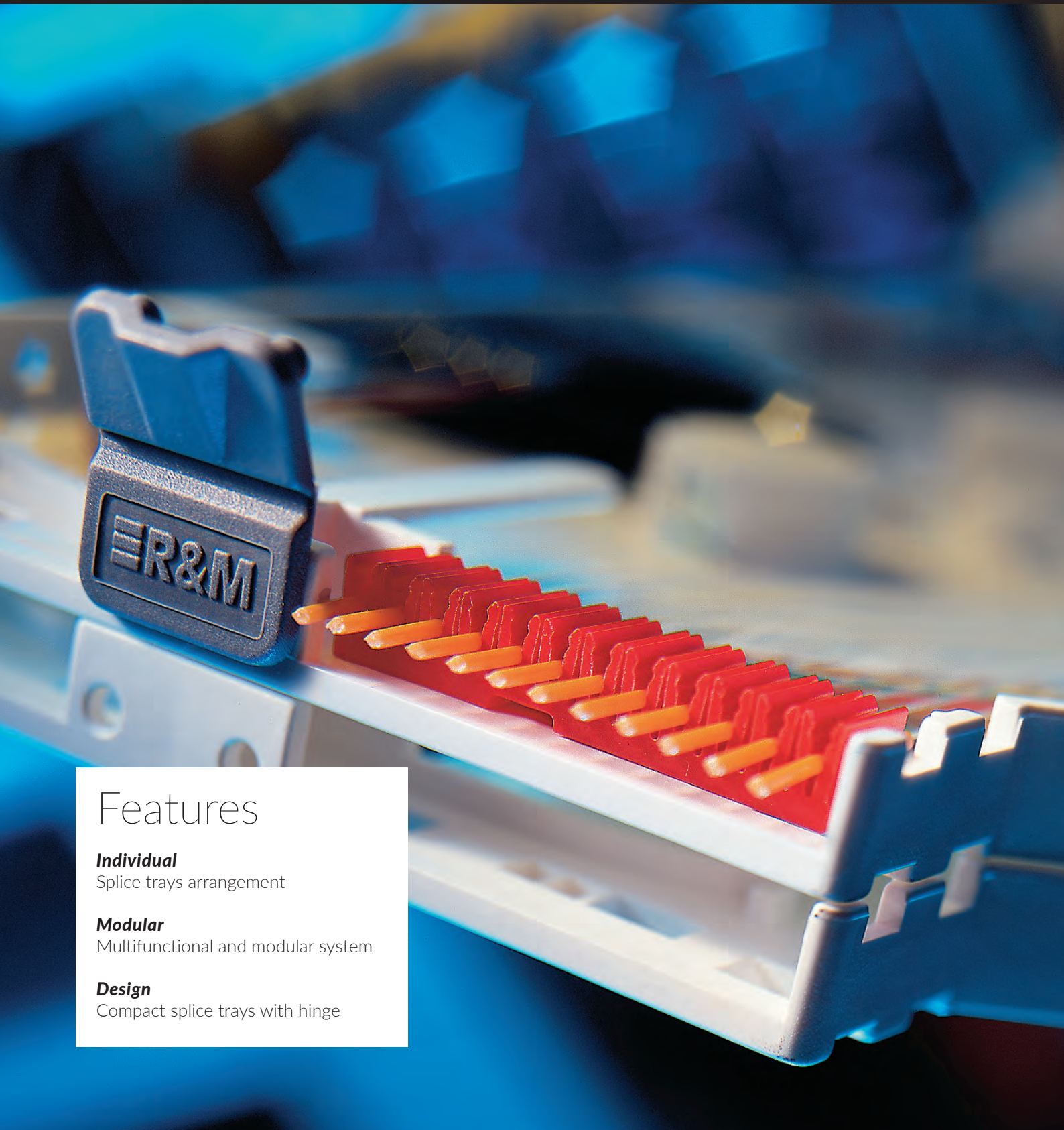
Features

Individual
Splice trays arrangement

Modular
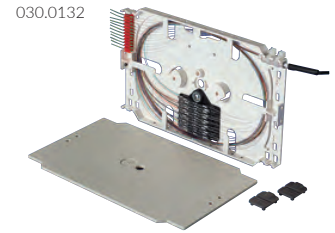Multifunctional and modular system

Design
Compact splice trays with hinge

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Splice Trays, Radius 30 mm

030.0132

Features
- Capacity of 12 or 24 splice connections
- Stackable trays with hinges
- Min. 1.5 m spare length per fiber
- Cover to snap onto trays
- Storing option for unspliced fibers
- Bending radius 30 mm
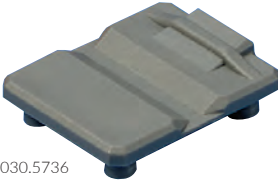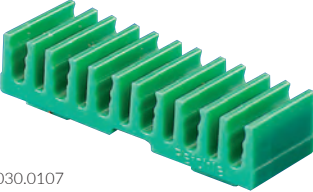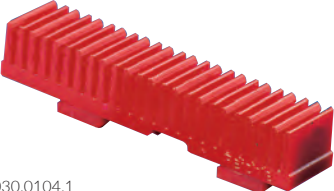
Ordering Information	Description	PU	Part Number
030.0081	**Splice Tray R30, white** Color: pure white (RAL 9010). Material: plastic (ABS). Dimensions: 92x8x155 mm (WxHxD).	100	R837965
030.5737	**Cover Splice Tray R30, white** Cover for Splice Tray R30. To protect the fibers. Hinged fastening. Color: pure white (RAL 9010). Material: plastic (ABS). Dimensions: 92x2x155 mm (WxHxD).	100	R839780
030.5735	**Laser sign** Dimensions: 28x34 mm	100	R840194

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Splice Trays, Accessories

Ordering Information	Description	PU	Part Number
030.5732	**Splice Holder, splice protection ANT** Suitable for splice trays radius 30/35/40 mm. Max. capacity: 12 ANT splice protections. Color: black. Material: plastic (PA66). Dimensions: 40x5x35 mm (WxHxD). Supplied: • Splice holder • Pastic screw	100	R839781
030.5822	**Splice Holder, 6x shrink splice protection** Suitable for splice trays radius 30/35/40 mm. Max. capacity: 6 heat shrink splice protection. Color: black. Material: plastic (POM). Dimensions: 27x5x37 mm (WxHxD). Supplied: • Splice holder • Plastic screw ℹ️ Applicable for heat shrinks with a diameter from 2.4 mm up to 2.6 mm.	100	R839782
030.5734	**Splice Holder, 12x shrink splice protection** Suitable for splice trays radius 30/35/40 mm. Max. capacity: 12 (2x6) heat shrink splice protection. Color: black. Material: plastic (POM). Dimensions: 34x6.2x32 mm (WxHxD). Supplied: • Splice holder • Plastic screw ℹ️ Applicable for heat shrinks with a diameter from 2.4 mm up to 2.6 mm.	100	R839783
090.7733	**Heat Shrink Splice Protection** Shrink tube (Ø 3 mm), after shrink age (Ø 2.5 mm) with metal insert. **60 mm** **45 mm** **35 mm**	100 100 100	R839784 R839785 R839786
090.7730	**ANT Splice Protector**	150	R840193

Ordering Information	Description	PU	Part Number
030.0101	**Film Hinge Splice Tray R30/R40, blue** For fastening stacked splice trays. Suitable for splice trays radius 30/40 mm. Color: blue. Material: plastic (PA66). Dimensions: 12x5.5x13 mm (WxHxD).	100	R839787
030.5736	**Insert Hinge Splice Tray R30, gray** For fastening the splice tray covers. Suitable for splice trays radius 30 mm. Material: plastic (PP). Dimensions: 15x5x18 mm (WxHxD).	100	R839788
030.0107	**Strain Relief 6 Fibers Ø 1.9-2.1 mm, green** For the strain relief of 6 FO individual optical fibers of Ø 1.9 to 2.1 mm. To snap onto splice trays radius 30/40 mm. Color: green. Material: plastic (PC). Dimensions: 25x8x7.5 mm (WxHxD).	100	R839790
030.0104.1	**Strain Relief 24 Fibers Ø 0.9-1.1 mm, red** For the strain relief of 24 FO individual optical fibers of Ø 0.9 to 1.1 mm. To snap onto splice tray radius 30/40 mm. Color: red. Material: plastic (PC). Dimensions: 33x6x5.4 mm (WxHxD).	100	R839789

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