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Data Sheet

August 13, 2026

ERICSSON

Ericsson Fusion Splicer RSU-12 RSU Fiber Holders 42SM045 R1 8R

Ericsson Fusion Splicer RSU-12 RSU Fiber Holders 42SM045 R1 8R, Precision fiber alignment holders designed for use with Ericsson RSU-12 fusion splicers to ensure accurate fiber placement during the splicing process for optimal splice quality and performance.



MODEL

Ericsson 42SM045 R1 8R

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

42SM045 R1 8R

LISTING

<https://aumictechlabs.com/products/42sm045-r1-8r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ericsson RSU-12 fiber holders (model 42SM045 R1 8R) are precision alignment components engineered for the Ericsson RSU-12 fusion splicer. These holders position optical fibers with micron-level accuracy during the splicing process, enabling consistent low-loss joints across single and multi-fiber configurations. The design accommodates single-mode, multimode, dispersion-shifted, and non-zero dispersion-shifted fibers in both standard and ribbon geometries. Technical Specifications Model: 42SM045 R1 8R Fiber Capacity: Single fiber or up to 12-fiber ribbon configurations Fiber Type Support: Single Mode (SM), Multimode (MM), Dispersion Shifted Fiber (DSF), Non-Zero Dispersion Shifted Fiber (NZ-DSF) Cladding Diameter Compatibility: 125/250 μm and 125/900 μm Alignment Architecture: Fixed V-grooves for radial alignment; high-precision stepper motors for axial alignment Splice Loss (SM 12-fiber ribbon, identical fibers):

0.04 dB typical Splice Method: Fully automatic with cold core alignment and warm image processing Operating Temperature Range: 0–45 °C Storage Temperature Range: –20 to +60 °C Humidity (Non-condensing): Maximum 98% RHKey Features Fixed V-groove geometry ensures repeatable radial positioning of fibers Stepper motor-driven axial alignment delivers sub-micron adjustment precision Automatic splice cycle integrates cold core detection with thermal image processing Supports ribbon fiber splicing up to 12 strands in a single operation Compatible with multiple fiber types and jacket diameters within specified rangesCompatibility & Integration These holders function as integral components of the Ericsson RSU-12 fusion splicer platform. The RSU-12 system delivers splice cycles in less than 40 seconds, incorporating integrated heating for rapid sleeve shrink and a large-view color monitor for process visualization. Associated accessories including ultrasonic cleaners and fiber ribbonizers complement the splicing workflow.

Features & description

From manufacturer datasheet

Features

- OEM Ericsson part 42SM045 R1 • 8R (8-fiber ribbon) holder configuration • Left/right paired holder set class • Designed for Ericsson RSU ribbon splicer family • Mechanical clamp alignment for ribbon fibers • Field-replaceable consumable/accessory • Used with ribbonizers, cleavers, and jacket removers in RSU kits • Revision R1 marking

Applications

- Holding 8-fiber ribbons during RSU-12 mass fusion splicing • Replacement spare holders for worn or damaged clamps • Field kit replenishment for Ericsson ribbon splicers • Matching left and right 8R holder sets • Ribbon preparation workflows with Ericsson RSU accessories

42SM045R18R Characteristics / Specifications

PARAMETER	VALUE
Model	42SM045 R1
Manufacturer	Ericsson
Instrument Type	Fusion Splicer Fiber Holder Pair
Alias	42SM045; 42SM045 R1 8R; RSU-12 8R holders
Host splicer family	Ericsson RSU-12 ribbon fusion splicer
Holder fiber count	8 fiber ribbon (8R)
Orientation	left and right pair
Revision	R1
Product category	fusion splicer accessory / spare
Material role	precision fiber clamp fixtures
Function	align and secure ribbon for arc fusion
Compatible workflow	ribbonize; cleave; place in holders; splice
Related RSU kit parts class	ribbonizer; cleaver; jacket remover; power supply
Related holder examples in RSU kits	12R holders; 6S holders (other PNs)
Form	matched mechanical holder pair
Primary use	mass fusion splicing of 8-fiber ribbon
OEM documentation	sparse public numeric tables
Catalog match basis	part number + 8R + RSU-12 association
Service role	replaceable wear item
Installation	drop-in clamp seats on splicer stage
Marking	42SM045 R1
Fiber geometry class	ribbon (planar array)
Notasplicer mainframe	accessory only Notes Verified as Ericsson P/N 42SM045 R1 8R fiber holders for RSU-12 class ribbon splicing from part listings; finer mechanical dimensions are not broadly published. Confirm left/right pairing, revision, and fit on the specific RSU-12 before use. Do not confuse with 42SM049 (RSU8 8R) or 42SM031 (12R) holders.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.